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2.3 Terrestrial Ecol.

EIGHTH QUARTERLY DATA REPORT
FOR THE
TERRESTRIAL BASELINE DATA ACCUMULATION PROGRAM
RIO BLANCO OIL SHALE PROJECT

submitted to
RIO BLANCO OIL SHALE PROJECT
Denver, Colorado

from
ECOLOGY CONSULTANTS, INCORPORATED
Fort Collins, Colorado

October 1976

TABLE OF CONTENTS

2.3	TERRESTRIAL STUDIES	2.3-1
2.3.1	Vegetation	2.3-1
2.3.1.3	Results	2.3-1
2.3.1.3.1	Data Organization and Content	2.3-1
2.3.1.3.2	Floristics	2.3-1
2.3.1.3.3	Data Presentation	2.3-1
2.3.1.5	Vegetation Raw Data	2.3-40
2.3.2	Grazing Exclosure	2.3-41
2.3.2.3	Results	2.3-41
2.3.2.5	Grazing Exclosure Raw Data	2.3-44
2.3.3	Small Mammals	2.3-45
2.3.3.3	Results	2.3-45
2.3.3.3.1	Live Trapping	2.3-45
2.3.3.3.2	Pitfall Trapping	2.3-59
2.3.3.3.3	Stomach Analysis and Reproductive Effort	2.3-59
2.3.3.3.4	Bat Mist Netting	2.3-72
2.3.3.5	Small Mammal Raw Data	2.3-73
2.3.4	Large Mammals	2.3-74
2.3.4.3	Results	2.3-74
2.3.4.3.1	Aerial Surveys	2.3-74
2.3.4.3.2	Pellet Group Counts	2.3-74
2.3.4.5	Large Mammal Raw Data	2.3-77
2.3.5	Mammalian Predators	2.3-78
2.3.5.3	Results	2.3-78
2.3.5.5	Mammalian Predators Raw Data	2.3-80
2.3.6	Winter Track Counts (No data collected)	
2.3.7	Avifauna	2.3-81
2.3.7.3	Results	2.3-81
2.3.7.3.1	General Avifauna	2.3-81
2.3.7.3.2	Qualitative Surveys	2.3-100
2.3.7.3.3	Upland Gamebirds	2.3-101
2.3.7.3.4	Waterfowl and Shorebirds	2.3-102

2.3.7.3.5	Raptors	2.3-102
2.3.7.5	Avifauna Raw Data	2.3-104
2.3.8	Reptiles and Amphibians	2.3-105
2.3.8.3	Results	2.3-105
2.3.8.5	Reptiles and Amphibians Raw Data	2.3-108
2.3.9	Terrestrial Invertebrates	2.3-109
2.3.9.3	Results	2.3-109
2.3.9.5	Terrestrial Invertebrates Raw Data	2.3-128
2.3.10	Domestic Livestock	2.3-129
2.3.10.3	Results	2.3-129
2.3.10.5	Domestic Livestock Raw Data	2.3-130
2.3.11	Remote Sensing (No data collected)	
2.3.12	Threatened and Endangered Species (No data collected)	

LIST OF TABLES

TABLE	TITLE	PAGE
2.3.1	Additions to the list of plant species observed during July 1976 in the vicinity of Tract C-a for RBOSP (see Section 7.1.S, Table 3-7-3 of the Second Annual Report 1976)	2.3-2
2.3-2	Species encountered in the mature tree stratum of the aspen type during July 1976 for RBOSP	2.3-4
2.3-3	Species encountered in the shrub-seedling stratum of the aspen type during July 1976 for RBOSP	2.3-5
2.3-4	Species encountered in the herbaceous stratum of the aspen type during July 1976 for RBOSP	2.3-6
2.3-5	Species encountered in the mature tree stratum of the Douglas fir type during July 1976 for RBOSP	2.3-8
2.3-6	Species encountered in the shrub-seedling stratum of the Douglas fir type during July 1976 for RBOSP	2.3-9
2.3-7	Species encountered in the herbaceous stratum of the Douglas fir type during July 1976 for RBOSP	2.3-11
2.3-8	Species encountered in the mature tree stratum of the mixed brush type during July 1976 for RBOSP	2.3-13
2.3-9	Species encountered in the shrub-seedling stratum of the mixed brush type during July 1976 for RBOSP	2.3-14
2.3-10	Species encountered in the herbaceous stratum of the mixed brush type during July 1976 for RBOSP	2.3-15
2.3-11	Species encountered in the mature tree stratum of the pinyon-juniper type during July 1976 for RBOSP	2.3-19
2.3-12	Species encountered in the shrub-seedling stratum of the pinyon-juniper type during July 1976 for RBOSP	2.3-20
2.3-13	Species encountered in the herbaceous st-atum of the pinyon-juniper type during July 1976 for RBOSP	2.3-21
2.3-14	Species encountered in the shrub-seedling stratum of the sagebrush type during July 1976 for RBOSP	2.3-24
2.3-15	Species encountered in the herbaceous stratum of the sagebrush type during July 1976 for RBOSP	2.3-26

TABLE	TITLE	PAGE
2.3-16	Species encountered in the herbaceous stratum of the greasewood type during July 1976 for RBOSP	2.3-29
2.3-17	Species encountered in the herbaceous stratum of the rabbitbrush type during July 1976 for RBOSP	2.3-30
2.3-18	Species encountered in the shrub-seedling stratum of the upland meadow type during July 1976 for RBOSP	2.3-32
2.3-19	Species encountered in the herbaceous stratum of the upland meadow (bald) type during July 1976 for RBOSP	2.3-33
2.3-20	Species encountered in the herbaceous stratum of the shadscale type during July 1976 for RBOSP	2.3-35
2.3-21	Species encountered in the shrub-seedling stratum of the riparian type during July 1976 for RBOSP	2.3-36
2.3-22	Species encountered in the herbaceous stratum of the riparian type during July 1976 for RBOSP	2.3-38
2.3-23	Summary of grazing exclosure 0.004 hectare shrub plot data collected 17 August 1976 for RBOSP	2.3-42
2.3-24	Grazing exclosure mature tree stratum line intercept data summary for August 1976 for RBOSP	2.3-43
2.3-25	Summary of trapping results for all small mammal species captured at all grids during sample period 8, July 1976, for RBOSP	2.3-46
2.3-26	Summary of trapping results for Spermophilus tridecemlineatus (thirteen-lined gr. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-48
2.3-27	Summary of trapping results for Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-49
2.3-28	Summary of trapping results for Eutamias minimus (least chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-50
2.3-29	Summary of trapping results for Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-51
2.3-30	Summary of trapping results for Perognathus apache (Apache pocket mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-52

TABLE	TITLE	PAGE
2.3-31	Summary of trapping results for Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-53
2.3-32	Summary of trapping results for Peromyscus truei (piñon mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-54
2.3-33	Summary of trapping results for Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-55
2.3-34	Summary of trapping results for Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-56
2.3-35	Summary of trapping results for Microtus montanus (montane vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-57
2.3-36	Summary of trapping results for Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-58
2.3-37	Average live weights (gm) for adult Spermophilus tridecemlineatus (thirteen-lined grd. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP.	2.3-60
2.3-38	Average live weights (gm) for adult Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-61
2.3-39	Average live weights (gm) for adult Eutamias minimus (least chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-62
2.3-40	Average live weights (gm) for adult Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-63
2.3-41	Average live weights (gm) for adult Perognathus apache (Apache pocket mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-64
2.3-42	Average live weights (gm) for adult Perognathus maniculatus (deer mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-65
2.3-43	Average live weights (gm) for adult Peromyscus truei (piñon mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-66

TABLE	TITLE	PAGE
2.3-44	Average live weights (gm) for adult Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-67
2.3-45	Average live weights (gm) for adult Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-68
2.3-46	Average live weights (gm) for adult Microtus montanus (montane vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-69
2.3-47	Average live weights (gm) for adult Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-70
2.3-48	Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all small mammal grids during sample period 8, July 1976, for RBOSP	2.3-71
2.3-49	Number of mule deer, elk and feral horses observed during two summer 1975 aerial surveys conducted for RBOSP.	2.3-75
2.3-50	Mule deer pellet groups accumulated during winter/spring 1975/1976 on 13 transects on and near Tract C-a for RBOSP	2.3-76
2.3-51	Predator scent station results for two lines operated during 26-30 July 1976 for RBOSP	2.3-79
2.3-52	Results* of strip transect censuses of birds at Transect 1 during June 1976	2.3-82
2.3-53	Results* of strip transect censuses of birds at Transect 2 during June 1976	2.3-83
2.3-54	Results* of strip transect censuses of birds at Transect 3 during June 1976	2.3-84
2.3-55	Results* of strip transect censuses of birds at Transect 4 during June 1976	2.3-85
2.3-56	Results* of strip transect censuses of birds at Transect 5 during June 1976	2.3-86
2.3-57	Results* of strip transect censuses of birds at Transect 6 during June 1976	2.3-87

TABLE	TITLE	PAGE
2.3-58	Results* of strip transect censuses of birds at Transect 7 during June 1976	2.3-88
2.3-59	Results* of strip transect censuses of birds at Transect 8 during June 1976	2.3-89
2.3-60	Results* of strip transect censuses of birds at Transect 9 during June 1976	2.3-90
2.3-61	Results* of strip transect censuses of birds at Transect 10 during June 1976	2.3-91
2.3-62	Results* of strip transect censuses of birds at Transect 11 during June 1976	2.3-92
2.3-63	Results* of strip transect censuses of birds at Transect 12 during June 1976	2.3-93
2.3-64	Results* of strip transect censuses of birds at Transect 13 during June 1976	2.3-94
2.3-65	Results* of strip transect censuses of birds at Transect 14 during June 1976	2.3-95
2.3-66	Results* of strip transect censuses of birds at Transect 15 during June 1976	2.3-96
2.3-67	Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all avifauna transects during sample period 9, June 1976..	2.3-97
2.3-68	Summary of reptile data collected on permanent and non-permanent transects in June and August 1976 for RBOSP	2.3-106
2.3-69	Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at Site 1, greasewood-sagebrush, during May 1976 for RBOSP	2.3-110
2.3-70	Average number of invertebrates collected from litter by the D-vac method at each sampling site during May 1976 for RBOSP	2.3-111
2.3-71	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during May 1976 for RBOSP	2.3-112
2.3-72	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by trap D-vac sampling at all sites during May 1976 for RBOSP	2.3-114

TABLE	TITLE	PAGE
2.3-73	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during May 1976 for RBOSP	2.3-116
2.3-74	Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at Site 2, pinyon-juniper (south slope) during May 1976 for RBOSP	2.3-118
2.3-75	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during May 1976 for RBOSP...	2.3-120
2.3-76	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during May 1976 for RBOSP	2.3-122
2.3-77	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during May 1976 for RBOSP	2.3-123
2.3-78	Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at Site 3, pinyon-juniper (north slope), during May 1976 for RBOSP	2.3-124
2.3-79	Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at Site 4, sagebrush, during May 1976 for RBOSP	2.3-126
2.3-80	Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at Site 5, mixed brush, during May 1976 for RBOSP	2.3-127

EXECUTIVE SUMMARY

Ecology Consultants, Incorporated has been contracted to perform a Terrestrial Baseline Data Accumulation Program for RBOSP on Tract C-a. Communication of the scope and results of that program is accomplished in a series of quarterly reports. This eighth report in that sereis contains summarized results and preliminary interpretations (where feasible) for those terrestrial programs conducted during the summer quarter, June 1976 through August 1976. The next quarterly report will include an update on the progress of ongoing terrestrial programs for the final (ninth) quarter as well as any approved program modifications. Definitive interpretations and a synthesis of program results for the first year of study were developed in the Second Annual Report (January 1976).

INTRODUCTION

This report presents and summarizes terrestrial baseline data gathered during the eighth quarter (June 1976 through August 1976) on Oil Shale Tract C-a and its environs. Summer quarter data are reported and discussed for vegetation, grazing exclosure, small mammal, large mammal, mammalian predators, avifauna, reptiles and amphibians, terrestrial invertebrates and domestic livestock program elements. Limited interpretation of those data is provided wherever relevant. All raw data reported for the winter quarter are organized in appendices which appear as separate sub-sections under each of the major categories of investigation.

2.3 TERRESTRIAL STUDIES

2.3.1 Vegetation

2.3.1.3 Results

2.3.1.3.1 Data Organization and Content

Ten different vegetation types were sampled on or near Tract C-a during July 1976 (summer quarter). The herbaceous stratum was sampled in all 10 vegetation types along 35 permanent transects during July 1976 while 27 non-permanent transects were surveyed for shrub-seedling and mature tree stratum data in the ten vegetation types during the same period.

Raw data, taken from data sheets presented in section 2.3.1.5 of this report are summarized and included in tables presented at the end of this section. These data summary tables provide the basis for the verbal data presentation (section 2.3.1.3.3 of this report) and are organized by vegetation type. Each life form occurring within a type (herbaceous , shrub-tree seedling, mature tree) is discussed separately to demonstrate important differences between strata within a type.

Important parameters describing the structural and compositional nature of each stratum within each vegetation type are presented and discussed.

2.3.1.3.2 Floristics

Table 3-7-3 of the Second Annual Report (RBOSP, 1976) provides a comprehensive list of vegetative species encountered on the Tract C-a study area. New plant species encountered on the study area subsequent to the publication of the Second Annual Report are listed in Quarterly Reports. Table 2.3-1 of this quarterly report lists the new plant species encountered on the Tract C-a study area this quarter.

2.3.1.3.3 Data Presentation

Aspen - During the summer quarter the aspen type was sampled by two permanent and one non-permanent transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transect while the herbaceous stratum only was measured along the permanent transects. Three strata and 31 different species were identified for the aspen type during July 1976 sampling: 2 species in the mature tree stratum; 7 species in the shrub-tree seedling stratum; and 24 species in the herbaceous stratum. Populus tremuloides and Pseudotsuga occurred in both the shrub-tree seedling and mature tree strata.

Table 2.3-1. Additions to the list of plant species observed during July, 1976 in the vicinity of Tract C-a for RBOSP (see Section 7.1.A, Table 3-7-3 of the Second Annual Report, 1976)

Abbreviation	Species
	FORBS
Chre[1]	Chenopodium rubrum L.[2]; (Chenopodiaceae)[3], Ther[4], Goosefoot, V[5], (N)[6]
Disp	Distichlis spicata Torr. Rydb.; (Graminae), Hemi, Inland Saltgrass, (N)
Hagl	Halogeton glomeratus Bieb. Mey.; (Chenopodiaceae), Ther, Halogeton, V (I)

[1] Abbreviation of genus and species in a four-letter code.

[2] Author citation, nomenclatural authority cited after each species name and delineated by a semicolon.

[3] The family of plants to which a species belongs in parentheses.

[4] Lifeforms of Plants

Phan (Phanerophyte) - Perennating bud at least 0.25 m above soil surface.

Cham (Chamaephyte) - Perennating bud between 0 and 0.25 m above soil surface.

Hemi (Hemicryptophyte) - Perennating bud in soil surface.

Cryp (Cryptophyte) - Perennating buds covered by soil or water.

Ther (Therophyte) - Annual plants, perennating buds contained in seed.

Succ (Succulent) - Stems enlarged; serve as water storage organ.

[5] (V) - Voucher specimen collected.

[6] Origin of plant species

(N) - Native to the North American continent.

(I) - Introduced from outside the North American continent.

The aspen vegetation type was sampled over an elevational range of 2481 to 2652 m (8140 to 8700 ft) where it occurs primarily on deep, loamy soils which are high in organic matter.

The mature tree stratum (Table 2.3-2) consisted of two species, Populus tremuloides and Pseudotsuga menziesii, and contributed a total cover of 81%. Populus tremuloides dominated the mature tree stratum and provided a relative cover of 91% a density of 383 individuals per hectare and a basal area of 12.8 m^2 per hectare.

Seven shrub-tree seedling species contributed a total cover of 49% and a total density of 7767 individuals per hectare during July 1976 sampling of the aspen shrub-tree seedling stratum (Table 2.3-3). Symphoricarpos oreophilus, Rosa woodsii and Amelanchier utahensis were the dominant species contributing 45% of the total cover.

The herbaceous stratum (Table 2.3-4) was composed of 24 different species contributing a total cover of 50%. Thermopsis montana and Carex geyeri were the dominant herbaceous species contributing nearly 20% of the total herbaceous cover.

Douglas Fir - The Douglas-fir type was sampled during July, 1976 by 2 permanent and one non-permanent transects. Shrub-tree seedling and mature tree strata were measured along the non-permanent transects while the herbaceous stratum only was measured along the two permanent transects. Three strata and 24 different species were identified for the Douglas-fir type during July, 1976 sampling: one species in the mature tree stratum; 6 species in the shrub-tree seedling stratum; and 18 species in the herbaceous stratum. Pseudotsuga menziesii was encountered in both the shrub-tree seedling and mature tree strata.

The Douglas-fir vegetation type was sampled over an elevational range of 2378 to 2591 m (7800 to 8500 ft) where it occurs on steep slopes with shallow soils.

The mature tree stratum (Table 2.3-5) contained only one species, Pseudotsuga menziesii which contributed a total cover of 68%, occurred at a density of 333 individuals per hectare and had a basal area of 13.6 m^2 per hectare.

Six shrub-tree seedling species contributed a total cover of 31% and a total density of 20,550 individuals per hectare in the Douglas-fir shrub-tree seedling stratum (Table 2.3-6) sampled during the summer quarter. Symphoricarpos oreophilus and Amelanchier utahensis were the dominant shrub species

Table 2.3-2. Species encountered in the mature tree stratum of the aspen type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Populus tremuloides	90.53	92.00	71.43	84.65	73.61	100.00	7361.00	383.33	85.26	12.75
Pseudotsuga menziesii	9.47	8.00	28.57	15.35	7.70	40.00	770.00	33.33	14.74	2.20
All Species					81.31		8131.00	416.67		14.95

Table 2.3-3. Species encountered in the shrub-seedling stratum of the aspen type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Symphoricarpos oreophilus	40.47	44.85	16.13	33.82	19.82	100.00	1982.00	3483.33
Populus tremuloides	1.92	1.72	12.90	5.51	0.94	80.00	94.00	133.33
Prunus virginiana	1.12	7.30	12.90	7.11	0.55	80.00	55.00	566.67
Acer glabrum	2.55	9.44	16.13	9.37	1.25	100.00	125.00	733.33
Rosa woodsii	29.14	15.67	16.13	20.31	14.27	100.00	1427.00	1216.67
Amelanchier utahensis	23.22	20.39	16.13	19.91	11.37	100.00	1137.00	1583.33
Pseudotsuga menziesii	1.57	0.64	9.68	3.96	0.77	60.00	77.00	50.00
All Species					48.97		4897.00	7766.67

Table 2.3-4. Species encountered in the herbaceous stratum of the aspen type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Geranium richardsonii	3.87	3.13	0.19	20.00	18.50	0.5	2.5
Bromus marginatus	5.13	9.38	0.25	60.00	24.50	***	***
Thalictrum fendleri	1.78	5.47	0.09	35.00	8.50	0.8	2.1
Stipa comata	3.24	2.34	0.16	15.00	15.50	***	***
Achillea lanulosa	0.00	2.34	0.00	15.00	0.00	0.3	1.7
Hackelia floribunda	1.99	3.13	0.10	20.00	9.50	1.2	6.0
Thermopsis montana	18.10	9.38	0.87	60.00	86.50	2.8	4.6
Galium boreale	1.57	10.94	0.08	70.00	7.50	2.4	3.4
Eriogonum sp.	1.57	2.34	0.08	15.00	7.50	0.2	1.3
Viola canadensis var. rugulosa	12.87	5.47	0.62	35.00	61.50	2.3	6.4
Osmorhiza depauperata	10.46	11.72	0.50	75.00	50.00	5.8	7.7
Senecio sp.	0.42	1.56	0.02	10.00	2.00	0.4	4.0
Valeriana occidentalis	7.11	4.69	0.34	30.00	34.00	1.3	4.2
Carex geyeri	17.68	12.50	0.85	80.00	84.50	***	***
Agropyron trachycaulum	0.00	0.78	0.00	5.00	0.00	***	***
Potentilla pulcherrima	2.30	1.56	0.11	10.00	11.00	0.3	3.0
Pachystima myrsintes	1.26	2.34	0.06	15.00	6.00	0.4	2.7

Table 2.3-4. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Smilacina stellata	1.99	3.91	0.10	25.00	9.50	0.5	1.8
Agropyron spicatum	5.23	2.34	0.25	15.00	25.00	***	***
Taraxacum officinale	0.10	0.78	0.01	5.00	0.50	0.1	1.0
Solidago sp.	0.10	0.78	0.01	5.00	0.50	0.1	2.0
Cirsium sp.	0.94	1.56	0.05	10.00	4.50	0.2	1.5
Unknown	0.21	0.78	0.01	5.00	1.00	0.2	1.0
Aquilegia coerulea	2.09	0.78	0.10	5.00	10.00	0.1	1.0
All Species			4.78		478.00		

Table 2.3-5. Species encountered in the mature tree stratum of the Douglas fir type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Pseudotsuga menziesii	100.00	100.00	100.00	100.00	68.35	100.00	6835.00	333.33	100.00	13.59
All Species					68.35		6835.00	333.33		13.59

Table 2.3-6. Species encountered in the shrub-seedling stratum of the Douglas fir type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Symphoricarpos oreophilus	45.51	21.01	20.83	29.12	14.05	100.00	1405.00	4316.67
Rosa woodsii	2.85	7.95	20.83	10.54	0.88	100.00	88.00	1633.33
Amelanchier utahensis	32.33	2.92	20.83	18.69	9.98	100.00	998.00	600.00
Pseudotsuga menziesii	11.73	64.72	16.67	31.04	3.62	80.00	362.00	13300.00
Acer glabrum	0.00	0.41	12.50	4.30	0.00	60.00	0.00	83.33
Prunus virginiana	7.58	3.00	8.33	6.30	2.34	40.00	234.00	616.67
All Species					30.87		3087.00	20550.00

contributing 24% of the total cover in the shrub-tree seedling stratum.

The Douglas-fir herbaceous stratum (Table 2.3-7) was composed of 18 different species contributing a total cover of 30%. A sedge, Carex geyeri was the dominant species contributing over 10% of the total herbaceous cover.

Mixed Brush - During the summer quarter, the mixed brush vegetation type was sampled with five permanent and four non-permanent transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transect while herbaceous vegetation was surveyed only along the permanent transects. Three strata and 52 different species were identified for the mixed brush type during July, 1976 sampling: 2 species in the mature tree stratum; 15 species in the shrub-tree seedling stratum; and 37 species in the herbaceous stratum. Pinus edulis and Pseudotsuga menziesii occurred in both the mature tree and shrub-tree seedling strata.

The mixed brush vegetation type was sampled over an elevational range of 2189 to 2561 m (7180 to 8400 ft) where it occurrs on soils ranging from shallow to moderately deep depending on the slope of the area sampled.

The sparse mature tree stratum (Table 2.3-8) was comprised of two species, Pinus edulis and Pseudotsuga menziesii which contributed a total cover of only slightly more than 1% and a total density of 12.5 individuals per hectare. Pseudotsuga menziesii occurred at a greater density and frequency than Pinus edulis.

Fifteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-9) where they contributed a total cover of 65%. Amelanchier utahensis was the dominant shrub species contributing 29% of the total shrub cover.

The herbaceous stratum (Table 2.3-10) was comprised of 37 species which contributed a total cover of slightly over 10%. A sedge, Carex geyeri was the dominant herbaceous species providing a relative cover of 38%.

Pinyon-Juniper - During the summer quarter, the pinyon-juniper vegetation type was sampled with seven permanent and eight non-herbaceous transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Three strata and 54 different species were identified for the pinyon-juniper type during July, 1976 sampling: 2 species in the mature tree stratum; 15 species in the shrub-tree seedling stratum; and 37 species in the

Table 2.3-7. Species encountered in the herbaceous stratum of the douglas-fir type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Thalictrum fendleri	15.07	9.72	0.43	35.00	42.50	2.0	5.6
Carex geyeri	51.77	25.00	1.46	90.00	146.00	***	***
Galium boreale	0.71	9.72	0.02	35.00	2.00	0.7	1.9
Pachystima myrsinites	5.50	8.33	0.16	30.00	15.50	1.3	4.3
Viola sp.	2.30	6.94	0.07	25.00	6.50	0.7	2.8
Bromus marginatus	1.06	2.78	0.03	10.00	3.00	***	***
Mahonia repens	1.06	2.78	0.03	10.00	3.00	0.2	1.5
Thermopsis montana	1.42	2.78	0.04	10.00	4.00	0.2	2.0
Osmorhiza depauperata	5.32	5.56	0.15	20.00	15.00	1.4	6.8
Vicia americana	3.72	4.17	0.11	15.00	10.50	0.4	2.7
Eriogonum sp.	1.42	4.17	0.04	15.00	4.00	0.7	4.7
Unknown	0.18	1.39	0.01	5.00	0.50	0.1	1.0
Achillea lanulosa	0.18	2.78	0.01	10.00	0.50	0.2	2.0
Astragalus tenellus	8.16	8.33	0.23	30.00	23.00	0.7	2.3
Crepis acuminata	0.00	1.39	0.00	5.00	0.00	0.1	1.0
Lithospermum ruderale	0.71	1.39	0.02	5.00	2.00	0.1	1.0
Carex sp.	0.71	1.39	0.02	5.00	2.00	***	***

Table 2.3-7. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Stipa comata	0.71	1.39	0.02	5.00	2.00	***	***
All Species			2.82		282.00		

Table 2.3-8. Species encountered in the mature tree stratum of the mixed brush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Pinus edulis	6.47	33.33	33.33	24.38	0.07	5.00	6.75	4.17	57.20	0.38
Pseudotsuga menziesii	93.53	66.67	66.67	75.62	0.98	10.00	97.50	8.33	42.80	0.28
Total Species					1.04		104.25	12.50		0.66

Table 2.3-9. Species encountered in the shrub-seedling stratum of the mixed brush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Juniperus osteosperma	0.00	0.12	1.82	0.65	0.00	10.00	0.00	12.50
Pinus edulis	0.25	0.56	3.64	1.48	0.16	20.00	16.25	58.33
Pseudotsuga menziesii	0.00	0.04	0.91	0.32	0.00	5.00	0.00	4.17
Artemisia tridentata	13.05	25.22	17.27	18.52	8.51	95.00	851.00	2633.33
Cercocarpus montanus	6.08	5.11	6.36	5.85	3.96	35.00	396.25	533.33
Chrysothamnus sp.	0.00	0.04	0.91	0.32	0.00	5.00	0.00	4.17
Chrysothamnus nauseosus	0.51	0.32	1.82	0.88	0.34	10.00	33.50	33.33
Chrysothamnus viscidiflorus	0.42	2.39	10.91	4.58	0.28	60.00	27.50	250.00
Eurotia lanata	0.03	1.36	3.64	1.68	0.02	20.00	2.25	141.67
Purshia tridentata	0.40	1.28	3.64	1.77	0.26	20.00	26.25	133.33
Quercus gambelii	14.32	7.54	11.82	11.23	9.33	65.00	933.25	787.50
Tetradymia canescens	0.10	0.48	1.82	0.80	0.06	10.00	6.25	50.00
Amelanchier utahensis	44.18	14.72	13.64	24.18	28.80	75.00	2880.25	1537.50
Symphoricarpos oreophilus	13.27	32.12	17.27	20.89	8.65	95.00	865.00	3354.17
Amelanchier alnifolia	7.39	8.70	4.55	6.88	4.82	25.00	481.50	908.33
All Species					65.19		6519.25	10441.67

Table 2.3-10. Species encountered in the herbaceous stratum of the mixed brush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Poa sandbergii	6.29	7.79	0.08	24.00	8.20	***	***
Agropyron trachycaulum	7.36	9.09	0.10	28.00	9.60	***	***
Eriogonum umbellatum	15.80	5.19	0.21	16.00	20.60	0.2	1.5
Heuchera parviflora	0.15	0.65	0.00	2.00	0.20	0.0	1.0
Pachystima myrsinites	0.77	1.30	0.01	4.00	1.00	0.2	4.0
Koeleria gracilis	0.92	2.60	0.01	8.00	1.20	***	***
Erigeron pumilis	0.15	3.25	0.00	10.00	0.20	0.2	2.2
Hedysarum boreale	0.46	0.65	0.01	2.00	0.60	0.0	1.0
Linum lewisii	0.61	5.19	0.01	16.00	0.80	0.3	1.9
Cryptantha sericea	0.92	4.55	0.01	14.00	1.20	0.2	1.4
Lupinus argenteus	0.61	1.95	0.01	6.00	0.80	0.1	1.0
Antennaria rosea	0.00	0.65	0.00	2.00	0.00	0.0	1.0
Phlox longifolia	0.00	2.60	0.00	8.00	0.00	0.2	2.0
Haplopappus nutallii	4.60	7.79	0.06	24.00	6.00	1.0	4.1
Oryzopsis hymenoides	4.91	5.19	0.06	16.00	6.40	***	***
Clematis hirsutissima	0.61	0.65	0.01	2.00	0.80	0.0	1.0
Penstemon caespitosus	1.99	7.14	0.03	22.00	2.60	0.6	2.8

Table 2.3-10. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Lithospermum ruderale	0.61	0.65	0.01	2.00	0.80	0.0	1.0
Sitanion hystrix	0.00	0.65	0.00	2.00	0.00	***	***
Gutierrezia sarothrae	3.83	1.95	0.05	6.00	5.00	0.5	7.7
Stipa comata	4.60	3.25	0.06	10.00	6.00	***	***
Oenothera laevandulaefolia	0.77	1.30	0.01	4.00	1.00	0.0	1.0
Physaria floribunda	0.00	1.30	0.00	4.00	0.00	0.0	1.0
Sisymbrium linifolium	0.00	0.65	0.00	2.00	0.00	0.0	1.0
Senecio multilobatus	0.00	0.65	0.00	2.00	0.00	0.0	1.0
Carex geyeri	38.04	9.09	0.50	28.00	49.60	***	***
Comandra umbellata	1.07	1.30	0.01	4.00	1.40	0.3	7.0
Helianthella uniflora	1.23	1.30	0.02	4.00	1.60	0.1	1.5
Ipomopsis aggregata	0.00	0.65	0.00	2.00	0.00	0.0	1.0
Polygonum sawatchense	0.00	0.65	0.00	2.00	0.00	0.1	4.0
Chenopodium sp.	0.00	0.65	0.00	2.00	0.00	0.0	1.0
Galium boreale	0.46	1.95	0.01	6.00	0.60	0.2	4.0
Bromus marginatus	0.00	0.65	0.00	2.00	0.00	***	***
Penstemon fremontii	0.46	1.95	0.01	6.00	0.60	0.1	1.3

Table 2.3-10. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociatiliby
Achillea lanulosa	0.15	1.30	0.00	4.00	0.20	0.1	2.5
Mahonia repens	1.84	3.25	0.02	10.00	2.40	0.2	2.4
Balsamorhiza sagittata	0.77	0.65	0.01	2.00	1.00	0.0	1.0
All Species			1.30		130.40		

herbaceous stratum. Pinus edulis and Juniperus osteosperma occurred in both the mature tree and shrub-tree seedling strata.

The pinyon-juniper vegetation type was sampled over an elevational range of 1987 to 2262 m (6520 to 7420 ft) where it occurs primarily on shallow, well-drained soils derived from sandstone.

The mature tree stratum (Table 2.3-11) was comprised of 2 species, Pinus edulis and Juniperus osteosperma which contributed a total cover of 22.6% and a total density of 220.8 individuals per hectare. Juniperus osteosperma occurred at a greater density and frequency than Pinus edulis though the latter showed slightly higher percent cover.

Fifteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-12) where they contributed a total cover of 11.2% Artemisia tridentata and Cercocarpus montana were the dominant shrub species together contributing over 5% of the total shrub cover.

The herbaceous stratum (Table 2.3-13) was comprised of 37 species which contributed a total cover of only 6%. Two grasses, Agropyron trachycaulum and Poa sandbergii were the dominant herbaceous species providing a relative cover of over 45%.

Sagebrush - During the summer quarter, the sagebrush vegetation type was sampled with seven permanent and eight non-permanent transects. Shrub-tree seedling and mature tree strata, when present, were measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Two strata and 65 different species were identified for the sagebrush type during July, 1976 sampling: 13 species in the shrub-tree seedling stratum; and 52 species in the herbaceous stratum. No mature trees were encountered on the non-permanent transects.

The sagebrush vegetation type was sampled over an elevational range of 1957 to 2600 m (6420 to 8530 ft) where it occurs on well-drained soils ranging from shallow to deep depending on the topography of the area sampled and on the origin (alluvial or sandstone-derived) of the soil.

Thirteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-14) where they contributed a total cover of over 36%. Artemisia tridentata was the dominant shrub species contributing almost 27% of the total shrub cover.

Table 2.3-11. Species encountered in the mature tree stratum of the pinyon-juniper type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Juniperus osteosperma	41.34	56.60	52.83	50.26	9.32	70.00	932.00	125.00	81.15	33.71
Pinus edulis	58.66	43.40	47.17	49.74	13.23	62.50	1322.50	95.83	18.85	7.83
All Species					22.55		2254.50	220.83		41.54

Table 2.3-12. Species encountered in the shrub-seedling stratum of the pinyon-juniper type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Juniperus osteosperma	10.96	1.80	9.13	7.30	1.23	50.00	122.88	87.50
Pinus edulis	6.58	5.49	15.07	9.04	0.74	82.50	73.75	266.67
Artemisia tridentata	27.00	38.92	13.24	26.39	3.03	72.50	302.75	1891.67
Atriplex confertifolia	3.36	6.73	5.02	5.04	0.38	27.50	37.63	327.08
Cercocarpus montanus	19.06	10.33	8.68	12.69	2.14	47.50	213.75	502.08
Chrysothamnus nauseosus	2.86	2.91	8.68	4.82	0.32	47.50	32.13	141.67
Chrysothamnus viscidiflorus	3.15	12.43	8.22	7.93	0.35	45.00	35.38	604.17
Ephedra viridis	0.00	0.43	2.28	0.90	0.00	12.50	0.00	20.83
Purshia tridentata	7.56	4.33	4.57	5.48	0.85	25.00	84.75	210.42
Tetradymia canescens	0.21	0.30	1.83	0.78	0.02	10.00	2.38	14.58
Amelanchier utahensis	3.82	4.50	7.76	5.36	0.43	42.50	42.88	218.75
Symphoricarpos oreophilus	3.70	2.27	4.57	3.51	0.42	25.00	41.50	110.42
Amelanchier alnifolia	10.53	5.92	5.48	7.31	1.18	30.00	118.13	287.50
Opuntia polyacantha	0.66	1.29	5.02	2.32	0.07	27.50	7.38	62.50
Ceanothus martini	0.55	2.36	0.46	1.12	0.06	2.50	6.13	114.58
All Species					11.21		1121.38	4860.42

Table 2.3-13. Species encountered in the herbaceous stratum of the pinyon-juniper type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Agropyron trachycaulum	22.77	17.57	0.15	55.71	14.57	***	***
Koeleria gracilis	3.35	3.15	0.02	10.00	2.14	***	***
Haplopappus nutallii	6.25	6.31	0.04	20.00	4.00	0.3	1.4
Astragalus diversifolius	0.45	0.45	0.00	1.43	0.29	0.0	1.0
Erigeron pumilis	0.45	2.70	0.00	8.57	0.29	0.1	1.7
Sitanion hystrix	2.90	2.70	0.02	8.57	1.86	***	***
Stipa comata	10.27	4.05	0.07	12.86	6.57	***	***
Poa sandbergii	22.54	9.91	0.14	31.43	14.43	***	***
Phlox hoodii	5.36	7.66	0.03	24.29	3.43	0.5	2.0
Cryptantha sericea	3.13	7.66	0.02	24.29	2.00	0.5	2.1
Astragalus spatulatus	0.00	0.90	0.00	2.86	0.00	0.0	1.0
Arenaria fendleri	0.22	1.80	0.00	5.71	0.14	0.1	2.5
Astragalus chamaeleuce	0.00	0.90	0.00	2.86	0.00	0.0	1.5
Oryzopsis hymenoides	6.47	6.31	0.04	20.00	4.14	***	***
Senecio multilobatus	0.00	0.90	0.00	2.86	0.00	0.0	1.0
Cruciferae	0.00	0.45	0.00	1.43	0.00	0.0	1.0

Table 2.3-13. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Phlox longifolia	0.00	1.80	0.00	5.71	0.00	0.1	1.8
Trifolium gymnocarpon	0.22	2.70	0.00	8.57	0.14	0.1	1.0
Carex sp.	1.79	0.90	0.01	2.86	1.14	***	***
Sphaeralcea coccinea	2.23	1.80	0.01	5.71	1.43	0.5	9.0
Bromus tectorum	0.22	0.45	0.00	1.43	0.14	***	***
Crepis acuminata	0.00	0.45	0.00	1.43	0.00	0.0	1.0
Sisymbrium linifolium	0.00	0.45	0.00	1.43	0.00	0.0	2.0
Eriogonum umbellatum	1.79	0.90	0.01	2.86	1.14	0.0	1.5
Antennaria microphylla	0.00	0.90	0.00	2.86	0.00	0.1	3.0
Chaenactis douglasii	0.89	1.35	0.01	4.29	0.57	0.0	1.0
Ipomopsis congesta	0.00	0.90	0.00	2.86	0.00	0.0	1.0
Euphorbia fendleri	2.90	4.50	0.02	14.29	1.86	0.4	2.8
Eriogonum lonchophyllum	4.46	4.05	0.03	12.86	2.86	0.3	2.6
Lygodesmia joncea	0.22	0.90	0.00	2.86	0.14	0.0	1.5
Astragalus purshii	0.00	1.35	0.00	4.29	0.00	0.0	1.0
Streptanthus cordatus	0.22	0.45	0.00	1.43	0.14	0.0	1.0
Penstemon caespitosus	0.45	0.90	0.00	2.86	0.29	0.1	2.0

Table 2.3-13. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Physaria floribunda	0.00	0.45	0.00	1.43	0.00	0.0	1.0
Agropyron smithii	0.22	0.45	0.00	1.43	0.14	***	***
Descurainia richardsonii	0.00	0.45	0.00	1.43	0.00	0.0	1.0
Balsamorhiza sagittata	0.22	0.45	0.00	1.43	0.14	0.0	1.0
All Species			0.64		64.00		

Table 2.3-14. Species encountered in the shrub-seedling stratum of the sagebrush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Juniperus osteosperma	0.19	0.16	3.61	1.32	0.07	15.00	7.00	22.92
Pinus edulis	0.02	0.23	4.22	1.49	0.01	17.50	0.75	33.33
Artemisia tridentata	73.11	57.32	24.10	51.51	26.61	100.00	2661.25	8454.17
Atriplex confertifolia	0.03	0.16	0.60	0.26	0.01	2.50	1.25	22.92
Chrysothamnus nauseosus	8.08	7.44	7.23	7.59	2.94	30.00	294.25	1097.92
Chrysothamnus viscidiflorus	8.65	24.76	18.67	17.36	3.15	77.50	314.88	3652.08
Eurotia lanata	0.25	1.82	8.43	3.50	0.09	35.00	9.00	268.75
Purshia tridentata	0.00	0.03	1.20	0.41	0.00	5.00	0.00	4.17
Sarcobatus vermiculatus	0.00	0.04	0.60	0.21	0.00	2.50	0.00	6.25
Tetradymia canescens	0.42	1.10	5.42	2.32	0.15	22.50	15.38	162.50
Amelanchier utahensis	3.37	2.05	10.24	5.22	1.23	42.50	122.50	302.08
Symphoricarpos orephilus	5.72	3.43	6.02	5.06	2.08	25.00	208.25	506.25
Opuntia polyacantha	0.13	0.92	7.23	2.76	0.05	30.00	4.75	135.42
All Species					36.40		3640.00	14750.00

The herbaceous stratum (Table 2.3-15) was comprised of 52 species which contributed a total cover of just under 20%. A grass, Poa sandbergii, and a sedge, Carex geyeri, were the dominant herbaceous species together providing a relative cover of over 37%.

Greasewood - During the summer quarter, the greasewood vegetation type was sampled on three permanent transects. Greasewood was not sampled with non-permanent transects during July since all available greasewood stands have already been sampled. As discussed in the Second Annual Report (RBOSP 1976, page 3-7-41), greasewood is considered an association within the sagebrush type.

The greasewood vegetation association was sampled over an elevational range of 1905 to 2134 m (6250 to 7000 ft) where it occurs on deep, well-drained alluvial soils.

The herbaceous stratum on the three permanent transects (Table 2.3-16) was comprised of 12 species which contributed a total cover of less than 20%. The dominant herbaceous species were Bromus tectorum, Agropyron smithii, Chenopodium rubrum and Kochia iranica, together providing a relative cover of over 76%.

Rabbitbrush - During the summer quarter, rabbitbrush was sampled on two permanent transects. No non-permanent transects were sampled in rabbitbrush in July 1976. As discussed in the Second Annual Report (RBOSP 1976, page 3.7-43), rabbitbrush is considered a seral stage in the bottomland sagebrush association. Few stands of rabbitbrush in the study area remain unsampled to date.

The rabbitbrush vegetation association was sampled over an elevational range of 2012 to 2073 m (6600 to 6800 ft) where it occurs on deep, well-drained alluvial soils.

The herbaceous stratum along the 2 permanent transects (Table 2.3-17) was comprised of 10 species which contributed a total cover of somewhat less than 70%. Elymus cinereus was the dominant herbaceous species providing a relative cover of over 79%.

Bald (Upland Meadow) - During the summer quarter, the bald vegetation type was sampled with two permanent and three non-permanent transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transects. Two strata and 39 different species were identified for the bald type during July, 1976 sampling: 8 species in the shrub-tree seedling stratum; and 31 species in the herbaceous stratum.

Table 2.3-15. Species encountered in the herbaceous stratum of the sagebrush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Stipa comata	2.69	3.58	0.05	15.71	5.14	***	***
Poa sandbergii	19.25	8.79	0.37	38.57	36.86	***	***
Erigeron pumilis	0.60	4.23	0.01	18.57	1.14	0.5	2.6
Crepis acuminata	0.90	2.28	0.02	10.00	1.71	0.2	1.7
Cryptantha sericea	0.82	2.28	0.02	10.00	1.57	0.1	1.3
Agropyron trachycaulum	2.46	7.82	0.05	34.29	4.71	***	***
Trifolium gymnocarpon	0.75	4.23	0.01	18.57	1.43	0.4	2.0
Phlox longifolia	0.37	2.93	0.01	12.86	0.71	0.9	7.1
Sphaeralcea coccinea	0.22	3.26	0.00	14.29	0.43	0.6	4.0
Astragalus purshii	0.07	0.65	0.00	2.86	0.14	0.0	1.0
Koeleria gracilis	0.37	1.63	0.01	7.14	0.71	***	***
Phlox hoodii	1.19	2.93	0.02	12.86	2.29	0.2	1.7
Castilleja chromosa	0.30	1.63	0.01	7.14	0.57	0.1	1.4
Lupinus argenteus	10.67	4.89	0.20	21.43	20.43	0.5	2.3
Sitanion hystrix	2.61	2.93	0.05	12.86	5.00	***	***
Bromus tectorum	0.00	0.65	0.00	2.86	0.00	***	***
Chenopodium fremontii	0.45	3.91	0.01	17.14	0.86	1.0	5.8
Lepidium montanum	0.30	2.93	0.01	12.86	0.57	0.5	4.1

Table 2.3-15. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Agropyron smithii	5.15	3.26	0.10	14.29	9.86	***	***
Elymus cinereus	6.79	1.95	0.13	8.57	13.00	***	***
Poa pratensis	0.60	0.33	0.01	1.43	1.14	***	***
Taraxacum officinale	0.15	0.65	0.00	2.86	0.29	0.0	1.5
Distichlis spicata	0.15	0.33	0.00	1.43	0.29	***	***
Sisymbrium linifolium	0.07	2.61	0.00	11.43	0.14	0.3	2.5
Phlox multiflora	7.91	1.30	0.15	5.71	15.14	0.2	3.5
Penstemon caespitosus	1.34	2.28	0.03	10.00	2.57	0.2	2.4
Penstemon fremontii	0.75	0.98	0.01	4.29	1.43	0.0	1.0
Ipomopsis aggregata	0.07	0.65	0.00	2.86	0.14	0.0	1.5
Oryzopsis hymenoides	1.87	2.93	0.04	12.86	3.57	***	***
Physaria floribunda	0.00	0.33	0.00	1.43	0.00	0.0	1.0
Hedysarum boreale	0.90	0.33	0.02	1.43	1.71	0.0	1.0
Carex geyeri	18.13	2.28	0.35	10.00	34.71	***	***
Eriogonum umbellatum	1.19	1.30	0.02	5.71	2.29	0.1	2.2
Galium boreale	2.09	2.61	0.04	11.43	4.00	1.4	12.3
Geranium richardsonii	2.39	1.30	0.05	5.71	4.57	0.1	1.5

Table 2.3-15. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Achillea lanulosa	0.00	0.98	0.00	4.29	0.00	0.1	3.0
Ligusticum porteri	0.37	0.33	0.01	1.43	0.71	0.1	4.0
Erigeron speciosus	0.15	0.65	0.00	2.86	0.29	0.2	6.5
Comandra umbellata	0.52	1.63	0.01	7.14	1.00	0.3	4.2
Stipa columbiana	3.73	1.30	0.07	5.71	7.14	***	***
Astragalus tenellus	0.30	1.30	0.01	5.71	0.57	0.1	2.2
Helianthella uniflora	0.15	0.65	0.00	2.86	0.29	0.0	1.0
Euphorbia fendleri	0.07	0.33	0.00	1.43	0.14	0.0	1.0
Chenopodium album	0.45	1.93	0.01	8.57	0.86	0.4	4.5
Senecio multilobatus	0.00	0.33	0.00	1.43	0.00	0.0	1.0
Lappula redowskii	0.00	0.65	0.00	2.86	0.00	0.0	1.0
Artemisia frigida	0.30	0.33	0.01	1.43	0.57	0.0	1.0
Ipomopsis congesta	0.07	0.33	0.00	1.43	0.14	0.0	2.0
Astragalus chamaeleuce	0.15	1.30	0.00	5.71	0.29	0.1	1.8
Haplopappus nutallii	0.15	0.33	0.00	1.43	0.29	0.0	1.0
Eriogonum ovalifolium	0.00	0.33	0.00	1.43	0.00	0.0	1.0
Eriogonum sp.	0.00	0.33	0.00	1.43	0.00	0.0	1.0
All Species			1.91		191.43		

Table 2.3-16. Species encountered in the herbaceous stratum of the greasewood type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Chenopodium fremontii	9.34	10.31	0.17	33.33	17.00	7.7	23.0
Bromus tectorum	21.06	9.28	0.38	30.00	38.33	***	***
Lappula redowskii	1.65	7.22	0.03	23.33	3.00	2.3	9.9
Sitanion hystrix	0.55	3.09	0.01	10.00	1.00	***	***
Agropyron smithii	20.51	14.43	0.37	46.67	37.33	***	***
Kochia iranica	16.12	10.31	0.29	33.33	29.33	23.9	71.7
Elymus cinereus	0.18	2.06	0.00	6.67	0.33	***	***
Chenopodium sp.	0.18	7.22	0.00	23.33	0.33	0.4	1.9
Chenopodium rubrum	18.50	18.56	0.34	60.00	33.67	19.4	32.3
Lepidium montanum	0.37	7.22	0.01	23.33	0.67	0.7	3.1
Agropyron cristatum	11.17	8.25	0.20	26.67	20.33	***	***
Poa pratensis	0.37	2.06	0.01	6.67	0.67	***	***
All Species			1.82		182.00		

Table 2.3-17. Species encountered in the herbaceous stratum of the rabbitbrush type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Poa pratensis	7.27	15.69	0.49	40.00	49.00	***	***
Distichlis spicata	3.41	13.73	0.23	35.00	23.00	***	***
Elymus cinereus	79.01	39.22	5.33	100.00	532.50	***	***
Agropyron smithii	0.30	5.88	0.02	15.00	2.00	***	***
Juncus balticus	1.11	3.92	0.08	10.00	7.50	***	***
Bromus inermis	1.11	1.96	0.08	5.00	7.50	***	***
Aster sp.	0.07	1.96	0.01	5.00	0.50	0.1	1.0
Bromus tectorum	7.42	13.73	0.50	35.00	50.00	***	***
Chenopodium fremontii	0.00	1.96	0.00	5.00	0.00	0.3	5.0
Artemisia ludoviciana	0.30	1.96	0.02	5.00	2.00	0.1	2.0
All Species			6.74		674.00		

The bald vegetation type was sampled over an elevational range of 2256 to 2600 m (740 to 8530 ft) where it occurs on shallow, well-drained soils derived from sandstone.

Eight shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-18) where they contributed a total cover of 1.9%. Tetradymia canescens was the dominant shrub species contributing almost 0.6% of the total shrub cover.

The herbaceous stratum (Table 2.3-19) was comprised of 31 species which contributed a total cover of almost 25%. Poa sandbergii was the dominant herbaceous species providing a relative cover of over 26%.

Shadscale - During the summer quarter, the shadscale vegetation type was sampled with two permanent transects. Because of its limited distribution in the area, no non-permanent shadscale transects were sampled in July 1976.

The shadscale vegetation type was sampled over an elevational range of 2027 to 2076 m (6650 to 6810 ft) where it occurred on shallow soils derived from sandstone and platy siltstone outcrops.

The herbaceous stratum (Table 2.3-20) was comprised of 8 species which contributed a total cover of just over 5% Artemisia frigida and Eriogonum lonchophyllum were the dominant herbaceous species, together providing a relative cover of 72%.

Riparian - During the summer quarter, the riparian vegetation type was sampled with three permanent and two non-permanent transects. Shrub-tree seedling and mature tree strata, when present, were measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Two strata and 34 different species were identified for the riparian type during July, 1976 sampling: 21 species in the herbaceous stratum; and 13 species in the shrub-tree seedling stratum.

The riparian vegetation type was sampled over an elevational range of 1935 to 2195 m (6350 to 7200 ft) where it occurred on deep, well-drained alluvial soils.

Thirteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-21) where they contributed a total cover of over 36%. Artemisia tridentata was the dominant shrub species contributing over 11% of the total shrub cover.

Table 2.3-18. Species encountered in the shrub-seedling stratum of the upland meadow type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Artemisia tridentata	16.33	14.29	21.27	17.29	0.25	66.67	24.67	944.44
Cercocarpus montanus	0.00	0.08	2.12	0.73	0.00	6.67	0.00	5.56
Chrysothamnus viscidiflorus	24.83	21.02	21.27	22.37	0.38	66.67	38.00	1388.89
Eurotia lanata	20.26	23.96	10.63	18.28	0.31	33.33	31.33	1583.33
Tetradymia canescens	38.56	37.17	31.91	35.88	0.59	100.00	58.67	2455.56
Amelanchier utahensis	0.00	0.67	2.12	0.93	0.00	6.67	0.00	44.44
Symphoricarpos oreophilus	0.00	2.70	10.63	4.44	0.00	33.33	0.00	183.33
All Species					1.53			6605.56

Table 2.3-19. Species encountered in the herbaceous stratum of the upland meadow (bald) type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Haplopappus acaulis	11.72	3.35	0.29	30.00	29.00	1.3	4.2
Phlox hoodii	3.23	2.23	0.08	20.00	8.00	0.6	3.0
Astragalus spatulatus	10.10	8.38	0.25	75.00	25.00	3.0	3.9
Arenaria fendleri	0.20	5.03	0.01	45.00	0.50	1.1	2.4
Koeleria gracilis	6.26	6.70	0.16	60.00	15.50	***	***
Poa secunda	26.67	8.38	0.66	75.00	66.00	***	***
Hymenoxys acaulis	6.67	7.82	0.17	70.00	16.50	2.5	3.6
Haplopappus nutallii	5.05	7.26	0.13	65.00	12.50	2.6	3.9
Agropyron trachycaulum	11.11	8.38	0.28	75.00	27.50	***	***
Phlox longifolia	0.00	2.79	0.00	25.00	0.00	0.9	3.4
Astragalus chamaeleuce	0.20	5.59	0.01	50.00	0.50	0.7	1.3
Hedysarum boreale	1.01	1.12	0.03	10.00	2.50	0.1	1.0
Lygodesmia juncea	0.20	1.12	0.01	10.00	0.50	0.3	2.5
Trifolium gymnocarpon	0.40	3.91	0.01	35.00	1.00	0.6	1.6
Eriogonum lonchophyllum	3.84	5.03	0.10	45.00	9.50	0.6	1.3
Gutierrezia sarothrae	1.41	2.79	0.04	25.00	3.50	0.4	1.6
Physaria floribunda	0.00	0.56	0.00	5.00	0.00	0.1	2.0
Sphaeralcea coccinea	0.00	0.56	0.00	5.00	0.00	0.1	2.0

Table 2.3-19. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Comandra umbellata	0.81	0.56	0.02	5.00	2.00	0.3	5.0
Cryptantha sericea	0.00	0.56	0.00	5.00	0.00	0.1	1.0
Euphorbia fendleri	0.00	0.56	0.00	5.00	0.00	0.1	1.0
Erigeron pumilis	0.20	1.68	0.01	15.00	0.50	0.3	1.7
Ipomopsis aggregata	1.21	1.68	0.03	15.00	3.00	0.4	2.7
Castilleja chromosa	0.00	0.56	0.00	5.00	0.00	0.1	1.0
Senecio multilobatus	0.00	0.56	0.00	5.00	0.00	1.8	3.3
Penstemon caespitosus	5.05	6.15	0.13	55.00	12.50	1.8	3.3
Artemisia frigida	2.02	3.35	0.05	10.00	5.00	0.3	2.5
Artemisia dracunculus	1.62	1.12	0.04	10.00	4.00	0.3	2.5
Oxytropis lambertii	0.20	1.12	0.01	10.00	0.50	0.1	1.0
Linum lewisii	0.81	0.56	0.02	5.00	2.00	0.2	3.0
Androsace septentrionalis	0.00	0.56	0.00	5.00	0.00	0.1	1.0
All Species			2.48		247.50		

Table 2.3-20. Species encountered in the herbaceous stratum of the shadscale type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Haplopappus nutallii	8.65	12.12	0.05	20.00	4.50	0.3	1.5
Eriogonum lonchophyllum	28.85	21.21	0.15	35.00	15.00	1.6	4.4
Oenothera caespitosa	0.96	9.09	0.01	15.00	0.50	0.3	2.0
Sphaeralcea coccinea	6.73	9.09	0.04	15.00	3.50	0.9	6.0
Oryzopsis hymenoides	3.85	15.15	0.02	25.00	2.00	***	***
Sitanion longifolia	5.77	3.03	0.03	5.00	3.00	***	***
Artemisia frigida	43.27	21.21	0.23	35.00	22.50	0.7	2.0
Chenopodium fremontii	1.92	9.09	0.01	15.00	1.00	1.1	7.0
All Species			0.52		52.00		

Table 2.3-21. Species encountered in the shrub-seedling stratum of the riparian type during July, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Rhus trilobata	0.00	0.17	1.67	0.61	0.00	10.00	0.00	16.67
Artemisia tridentata	32.11	16.89	16.67	21.89	11.56	100.00	1156.00	1683.33
Chrysothamnus nauseosus	9.79	9.36	16.67	11.94	3.53	100.00	352.50	933.33
Chrysothamnus viscidiflorus	0.00	0.33	1.67	0.67	0.00	10.00	0.00	33.33
Prunus virginiana	1.89	0.84	3.33	2.02	0.68	20.00	68.00	83.33
Sarcobatus vermiculatus	0.00	0.25	3.33	1.19	0.00	20.00	0.00	25.00
Salix exigua	2.28	0.75	1.67	1.57	0.82	10.00	82.00	75.00
Symphoricarpos oreophilus	20.48	30.02	15.00	21.83	7.38	90.00	737.50	2991.67
Amelanchier alnifolia	1.25	11.12	10.00	7.46	0.45	60.00	45.00	1108.33
Ribes aureum	17.78	5.85	11.67	11.76	6.40	70.00	640.00	583.33
Rosa woodsii	4.79	22.91	11.67	13.12	1.73	70.00	172.50	2283.33
Ribes inerme	0.18	0.33	3.33	1.28	0.07	20.00	6.50	33.33
Salix interior	9.46	1.17	3.33	4.65	3.41	20.00	340.50	116.67
All Species					36.01		3600.50	9966.67

The herbaceous stratum (Table 2.3-22) was comprised of 21 species which contributed a total cover of over 85%. Agropyron repens and Elymus cinereus were the dominant herbaceous species providing a relative cover of over 77%.

Literature Cited

RBOSP. 1976. Second Annual Report for the Terrestrial Data Accumulation Program. Rio Blanco Oil Shale Project. January 1976. 3 volumes.

Table 2.3-22. Species encountered in the herbaceous stratum of the riparian type during July, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Aster sp.	4.17	8.75	0.36	23.33	35.67	6.3	27.1
Agropyron repens	39.48	22.50	3.37	60.00	337.33	***	***
Kochia iranica	0.00	2.50	0.00	6.67	0.00	0.1	1.0
Plantago major	0.04	1.25	0.00	3.33	0.33	0.0	1.0
Juncus balticus	2.97	5.00	0.25	13.33	25.33	***	***
Ranunculus cymbalaria	1.56	3.75	0.13	10.00	13.33	3.6	35.7
Triglochin maritima	0.23	1.25	0.02	3.33	2.00	0.1	3.0
Poa ampla	0.08	2.50	0.01	6.67	0.67	***	***
Carex nebraskensis	1.37	1.25	0.12	3.33	11.67	***	***
Carex sp.	4.45	3.75	0.38	10.00	38.00	***	***
Elymus cinereus	37.69	18.75	3.22	50.00	322.00	***	***
Descurainia richardsonii	2.61	7.50	0.22	20.00	22.33	2.0	10.0
Chenopodium fremontii	0.59	3.75	0.05	10.00	5.00	2.5	25.0
Chenopodium hygridum	0.94	3.75	0.08	10.00	8.00	0.7	7.3
Chorispora tenella	0.04	1.25	0.00	3.33	0.33	0.0	1.0
Unknown	0.12	2.50	0.01	6.67	1.00	0.2	3.0
Hordeum jubatum	2.81	2.50	0.24	6.67	24.00	***	***

Table 2.3-22. (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover (x 10)	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Poa pratensis	0.16	2.50	0.01	6.67	1.33	***	***
Agropyron smithii	0.04	1.25	0.00	3.33	0.33	***	***
Taraxacum officinale	0.08	1.25	0.01	3.33	0.67	0.1	4.0
Distichlis spicata	0.59	2.50	0.05	6.67	5.00	***	***
All Species			8.54		854.33		

2.3.1.5 Vegetation Raw Data

2.3.1.5 Vegetation Raw Data

2.3.1.5 Vegetation Raw Data

Nyserene M-June 1975 data

QUADRAT DATA SHEET
HERBACEOUS STRATUM

Project 83 (221

Sheet 1 of 1

Vegetation Type Aspen

Transect # 1

T ____ R ____ S ____ ¼ ¼ S ____ Quadrat Size 0.5m²

Field Analyst(s) Ellis / Sanz Date 17 July, 1976 QA Check Lewis 8-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat 1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Ceran. richardsonii	084	2		3	15			3	15	3	T												
Bromus marginatus	066	3			5		20		5		2		5										1
Thalictrum fendleri	116	2				2	3			1	1					2	4					2	4
Stipa columb.	115	4			4		2		25														
Achil. lan.	050	2		2	T															2	T		
Hackelia florib.	376	2		15	10			2	4											4	1	3	4
Thermopsis mont.	117	2		2	1			3	40	5	25	5	10							3	5		
Galium boreale	083	2,3,4		5	1	4	1			3	T			2	T			1	T				
Eriger. speciosum	078	2				1	T							2	15			1	T				
Viola canadensis	401	2						2	1	3	1	8	12			8	30	9	25	5	4	10	50
Osmor. depauperata	279	2						5	2	3	T	6	5					1	T	15	5	9	10
Erecon Spec.	131	2								2	2			5	20			1	2				
Valeriana occid.	294	5,6								5	10							1	2				
Carex gay.	160	2									2		20		10		2		8				5
Ano. trach.	054	4									T												
Potentilla anseri.		4										5	20							1	2		
Pachy. mervusi.	026 (Sheath)	2												1	1								
Smilacina stell.	297	2														1	1						
Arno. (near) spic.	053	3																			50		T
Taraxicum offic.	203	2																		1	1		
Solidago sp.	130	2																				2	1

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975

Project S3
Sheet 1 of 1
C.2.2.1

Vegetation Type Aspen — Transect # 3

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m2

Field Analyst(s) Ellis / Sanz — Date 17 July, 1976 — QA Check bmw 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Osmor. dep.	279	2		15	20	3	1	8	10	15	10	4	3	4	1	4	3	12	15	11	15		
Carex gayr.	160	2			6		T		2		15		3		1		50		15		25		5
Galium boreal	083	2		4	T	1	T	4	3	2	T	7	2	4	1	6	4			3	1	2	2
Smil. stel.	297	2		2	4	2	4	1	2											3	8		
Thal. fendl.	116	2				1	1	5	3			2	1										
Pachy. myr.	026 (Stroj)	2				1	1															6	10
Valer. occ.	294	2,3,5						1	2	8	10	3	20	7	14								
Thenn. mont.	117	2								2	4	4	9	6	7	2	2	11	40	8	20	4	10
Bromus marg.	066	2									T		1		4		5		T				1
Cirsium sp.	138	2										2	4	1	5								
! shown # A3.6		4												4	2								
Geran. richardsonii	064	2												1	7								
Achil. lan.	050	2												1	T								
Arnot (ucar) spicatum	053	3																	T				
Agui. caeru.	123	2																		1	20		

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM 1975
reference M-Douglas

Project Cedar 83
Sheet 1 of 1

Vegetation Type Douglas - fir Transect # 1

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Sanz Date 17 July, 1976 QA Check Lum 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																					
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Astrag. ten.	282	2		4	25	1	2	2	4	1	T					2	5			4	10		0
Mahonia repens	009 (Gh, Ob)	2		1	2																		
Achil. lan.	050	2		3	1																		
Carex geyeri	160	2			10		T		1		6		4		25		30		2				
Gal. boreal.	083	2				7	2																
Crep. acu.	243	2						1	T														
Eriogon species.	078	2,3										2	1										
Thalic. fendl.	116	2														8	25						
Therm. mont.	117	2														2	4						
Litho ruderale	162	2																		1	4		
Carex sp.	068	5																			4		
Stipa columbiana	115	3																			4		

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM 1975 reference M. Jones data

Project C222&3
Sheet 1 of 1

Vegetation Type Douglas-fir Transect # 3

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Sanz Date 17 July, 1976 QA Check Lum 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																					
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Thalic. fendl.	116	2		10	25			1	T	2	1			6	12			2	2	10	20		
Carex gayn.	160	2			15		5		T		5		25		20		25		4		35		80
Galium boreale	083	2		1	T			1	T			1	T					1	2	1	T	1	T
Pachy. meri.	026 (shrub)	2				7	5	4	6	5	3	2	1			6	10			2	1		
Viola sp.	118	2				3	4			6	4			1	T			2	4	2	1		
Bromus marginatus	066	2					T												6				
Mahonia repens	009 (shrub)	2						2	4														
Thalm. mont.	117	2								2	4												
Osmor. dep.	279	2										1	1	12	12			10	12	4	5		
Vicia amer.	304	2												3	10			2	6			3	5
E. glaucum speciosus.	078	2												7	4							5	6
unknown (see A.3.6)		2																1	1				
ball point pen (blue)		33																				1	T
Ach. Lan.	050	2																				1	T

FROM THIS SIDE TO RIGHT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
→ reference May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.4

Vegetation Type Mixed brush
Transect # 1

T_____ R_____ S_____ 1/4 1/4 S_____
Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz
Date 16 July 1976
QA Check Lems 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area																							
Hupplopappus nutt.	155	2		1	T									3	4							1	T
Oryzopsis hymen.	100	2			1										5						8		
Clematis hisu.	217	2		1	4																		
Penst. caes.	103	2		1	T					4	2			4	1			10	2	4	5	3	T
Agro. trach.	054	2					5		T		6								T		4		4
Eriogeron pum.	274	2				2	T	1	T														
Linum lewissii	190	2				1	T			1	1			8	2	1	T	1	T			1	T
Eriogonum umbel	128	2				1	T																
Lithosp. ruder.	162	6						1	4														
Sitanion long.	112	2							T														
Cat. cenith.	012 (Shrub)	3										18	20			4	5						
Stipa comata	115	6											6		2		10		4				8
Koeleria grac.	090	2											1								1		3
Crypt. seric.	194	6												1	2			3	1	1	T	1	T
Poa Sand.	108	7														4			1		T		
Oen. laevand.	364	2																1	2	1	3		
Phlox longifolia	156	2																		2	T		
Phys. Flori.	175	6																		1	T	1	T
Sisymb. lino.	316	2																		1	T		
Senec. multilobatus	251	2																		1	T		

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975 data

Project 83
Sheet 1 of 1

C.2.2.4

Vegetation Type Mixed brush Transect # 2

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check Sum 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Poa sandbergii	108	2			5		2		1		3		4		8		10		3				
Agro. trach	054	2			4				10		6		3				2				1		
Eriogon. umbel.	128	2		2	6					1	1	2	8			2	8					1	2
Heuchera sp.		2		1	1																		
Pachy. myrs.	026 Stem	2		2	2	6	3																
Koeler. grac.	090	2					1																
Erigeron pumi.	274	2,7						3	T							4	1						
Hedy. boreal	174	2						1	3														
Linum lewisi.	190	2								1	T												
Crypt. scric.	194	6										1	1			1	1						
L[illegible] orge.	343	2												1	T							1	T
Oxyt. rosea	321	6														1	T						
Phlox long.	156	5														2	T						

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
→ reference May - June 1975 data

Project 83
Sheet 1 of 1
C.2.2.4

Vegetation Type Mixed bmsh
Transect # 3
T_____ R_____ S_____ 1/4 1/4 S_____
Quadrat Size .5m²
Field Analyst(s) Ellis / Sanz
Date 17 July, 1976
QA Check bmw 8-2-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Carex geyeri	160	2			4		9		5		9		12										
Erioq. umbel.	128	2										2	5										
Eriqer. pumil.	274	2					↓					1	T										
Agro. trach.	054	2											T		3								
Comarr. palust.	280	2												4	4							10	3
Penst. caesp.	103	2												1	2							1	1
Crypt. sericea	194	2												2	1								
Poa sand.	108	2													T								
Helian. uniflo.	283	3														1	5					2	3
Oryz. hymen.	100	6																	10		3		5
Quercus aqueqata	273	4.5																1	T				
Phlox long.	156	2																					T

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
see May-June 1975 data

Project 8825P-83
Sheet 1 of 1
C.2.24

Vegetation Type Mixed Brush Transect # MB-7

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check Lum 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		—		—		—	
Carex geyeri	160	2		—	25	—	25	—	30	—	10	—	20	—	45	—	5	—	15	—	40	—	3
Eriogonum umbellatum	128	2		1	1																		
Polygonum sp.		4		4	T																		
Phlox longifolia	156	6		1	T																		
Chenopodium sp.	070	2		1	T																		
Galium boreale	083	2								4	1	3	1	5	1								
Bromus marginatus	066	2								—	T												
Penstemon fremontii	272	2								1	1							2	1			1	1
Achillea lanulosa	050	2												4	1					1	T		
Mahonia repens	009 (shrub)	2														2	2						
~~Senecio sp.~~		2																2	+				
Lupinus argenteus	343	5																1	4				

ABCOM FIELDNOTES

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

see May-June 1975 data

Project RBOSP-83
Sheet 1 of 1

C.2.24

Vegetation Type Mixed Brush Transect # M89

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check bem 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Haplo. nuttalli	155	2,3		8	5	1	1	2	2	1	5	15	4	10	5	3	2	2	2	2	T		
Linum lewisi	190	5,6				1	1																
Oryzopsis hymenoides	100	2				-	T			-	T												
Gutierrezia sarothrae	012 (shrub)	3				1	T																
Mahonia repens	009 (shrub)	2						6	7	2	1							1	1	1	1		
Balsam. sagittata	063	2								1	5												
Penstemon caespitosus	103	2										1	T	1	T	1	T						

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975 data

Project 93
Sheet 1 of 1
C.2.2.5

Vegetation Type Pinyon - Juniper
Transect # P2
T _____ R _____ S ~~1/4 1/4~~ S _____
Quadrat Size 0.5m²
Field Analyst(s) Ellis / Macgregor
Date 7/19/76
QA Check bm 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agropyron trachycaulum	054	2		-	3	-	4	-	T	-	2	-	7			-	T	-	1	-	1	-	1
Koeleria gracilis	090	2		-	4			-	2	-	1	-	4							-	2	-	1
Hesperostipa nuttallii	155	2,3,4,5		2	4	1	T					3	4										
Astragalus diversifolius P2.5	284	2		1	2																		
Erigeron pumillus	274	2		1	T					1	T	1	T			3	1						
Sitanion longifolium	112	2				-	2											-	1	-	1		
Stipa comata	115	2				-	3			-	6	-	4	-	15			-	2			-	10
Poa sandbergii	108	2				-	2	-	25	-	5	-	1					-	4	-	6		
Phlox hoodii	209	7				4	1	2	T	1	T	1	T					6	4	2	1	2	T
Cryptantha sericea	194	2, 6				3	T											2	T	4	1		
Astragalus spatulatus	292	2						1	T			1	T										
Arenaria fendleri	315	4										3	1	2	T	3	T						
Astragalus chamaeleuca	208	2										2	T										
Oryzopsis hymenoides	100	5												-	3	-	1						
Senecio multilobatus	251	2												1	T								
Crucifer nr. Draba P2.6		5,6																1	T				

REC. OF PROGRESS REPORT

Aspect (degrees) 112°
Slope (degrees) 7°
Elevation (feet) 8000
Orientation (degrees) 208°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.7
Project 83
Sheet 1 of 2

Vegetation Type Mixed Brush Transect # 24

T 15 R 100W S 14 ¼ ¼ S SE/NW Transect Length 100m

Field Analyst(s) RDM, DCK Date 7/16/76 QA Check Tom 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 ARTR	014	2,3	80	94	71	39	42	11
2 AMUT (clones)	032	2	110	17	33	21	20	23
3 SYOR "	033	2	25	55	29	41	49	41
4 QUGA (clones)	025	2	40	5	6	2	12	2
5 CEMO	017	2	50	2	0	0	0	1
X 6 ~~[illegible]~~		~~2~~	~~40~~	0	~~1~~	~~5~~	~~16~~	~~6~~
7 CHVI	020	2,3	15	1	0	3	0	0
X 8 CHRY	018	2,3	30	0	0	[illegible]	1	0
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
AMUT	2.15	2.35	2.71	4.63	10.96	15.52	18.02	18.49	4.33	5.72
	6.32	6.73	6.86	7.20	8.59	12.41	17.03	17.37	0.22	1.71
	5.38	5.79	6.98	10.42	14.66	16.77	17.26	17.69	17.88	18.97
	0.50	0.52	0.94	1.00	4.49	6.34	13.38	13.74	16.07	20.00
	0.00	0.27	0.57	1.28	1.59	4.14	7.69	8.14	8.61	9.59
ARTR	4.72	5.16	5.54	6.40	7.53	7.56	9.70	10.32	10.73	10.49
	15.42	15.53	15.81	15.92	16.14	16.43	16.59	16.62	16.62	16.73
	16.97	17.64	18.39	18.86	19.32	20.00	0.00	0.21	1.86	2.12
	3.49	3.99	6.41	7.48	7.47	7.73	14.49	15.09	16.76	17.38
	18.43	18.72	19.50	19.71	2.71	2.73	5.20	5.61	10.79	11.41
	19.57	19.74	1.23	1.43	6.74	6.83	7.89	8.13	8.88	9.95
SYOR	12.17	12.30	12.46	12.79	13.36	14.55	6.01	6.25	9.21	8.54
	8.92	9.39	9.67	9.79	9.96	10.11	10.15	10.42	17.50	17.58
	18.46	18.64	0.08	0.30	4.72	4.80	6.46	6.49	7.99	8.04
	8.45	8.47	11.01	11.06	11.50	11.89	12.16	12.21	12.68	12.77
QUGA	3.74	4.23	15.53	16.36	19.80	20.00	0.00	0.52	7.30	7.59
	3.42	3.53	4.29	4.40	4.83	5.33	10.99	11.14	11.84	12.12
~~Phlox~~	~~15.69~~	~~15.50~~	~~16.76~~	~~17.94~~	~~18.46~~	~~18.79~~	~~14.60~~	~~16.76~~		
ARTR	12.05	12.19	0.48	1.01	13.61	14.38				
QUGA	12.49	12.69	17.85	17.98	18.37	19.36	18.83	20.00	1.19	1.21

* in shrub stratum

186/021176

RBOSP PROGRESS REPORT

Aspect (degrees) 124
Slope (degrees) 18
Elevation (feet) 7460
Orientation (degrees) 59

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Mixed brush — Transect # 123

T 15 R 99W S 30 ¼ ¼ S NW/NE Transect Length 100 m

Field Analyst(s) RCS / DCK Date 7/18/76 QA Check Leon 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
SYMP	.60	.67	5.40	5.62						
CHVI	1.41	1.47								
AMAL	1.47	2.21	2.40	2.42	2.55	2.91	3.40	3.85	5.00	5.11
	8.48	8.92	9.08	10.12	12.91	13.39	14.81	15.22	16.12	17.01
	18.42	18.51	3.92	4.21	4.88	5.41	5.61	6.19	6.32	6.75
	11.94	11.53	14.81	15.63	15.80	16.10				
CEMO	10.12	10.91	13.39	14.85	17.00	17.34	4.19	5.02	7.41	8.52
	16.17	17.95								
PIED	7.88	4.53								
ARTR	8.91	9.08								

186/021176

RBOSP PROGRESS REPORT

Aspect (degrees) 124
Slope (degrees) 18°
Elevation (feet) 7460'
Orientation (degrees) 59

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.24
Project 83

Sheet 1 of 2

Vegetation Type Mixed Brush Transect # ~~M13-24~~ 23

T 15 R 99W S 30 ¼ ¼ S NW/NE Transect Length 100m

Field Analyst(s) RCS, DCK Date 7/18/76 QA Check Lcm 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 CEMO	017	2	110	28	36	31	19	11
2 AMAL	034	2	120	76	41	39	42	20
3 SYOR	033	2	35	92	27	48	30	6
4 ARTR	014	2,3,4,	60	15	9	28	12	0
5 PIED (1 mature)	002	2	~75	2	6	4	2	1 (mature)
6 EULA	022	2	20	23	7	2	2	0
7 CHVI	020	2	35	16	5	12	0	0
8 JUOS	001	2	20	0	1	2	0	0
9 CHNA	019	2	50	0	0	5	3	0
10 QUGA	025	2	30	0	0	22	0	0
11 TECA	031	3	27	0	0	0	0	1

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
CEMO	1.94	2.01	9.60	9.71	13.32	13.27	13.92	14.05	14.67	14.80	
	14.98	15.06	15.14	15.19	15.86	15.89	16.07	16.09	16.19	16.42	
	16.84	19.12	19.36	19.44	2.10	2.90	7.00	7.49	10.60	11.01	
	14.62	16.19	16.58	16.90	18.91	18.96	19.70	20.00	0	1.86	
	4.81	5.08	6.58	6.62							
QUGA	17.51	17.59	18.01	18.90							
CHNA	13.66	15.00									
ARTR	13.54	14.21	15.90	17.11							
PIED	6.13	6.40									diameter 24 cm.
AMAL	4.47	4.51	6.50	7.40	8.08	9.60	9.85	9.94	11.80	12.06	
	12.28	12.75	13.27	13.92	14.05	14.22	14.50	14.67	15.26	15.53	
	15.64	16.04	16.15	16.20	4.32	7.00	11.19	12.08	16.17	16.41	
	18.35	18.50	19.01	19.19	1.86	2.61	3.04	3.33	3.77	4.22	
	5.08	5.33	9.41	9.73							
SYOR	7.40	8.08	9.71	9.85	10.05	10.13	10.65	10.72	12.75	13.02	
	14.41	14.50	14.80	14.97	9.38	9.51	14.55	14.71	15.38	15.90	
EULA	18.56	18.65									
ARTR	13.86	13.94	18.60	18.84	4.22	4.81	9.72	9.96	12.22	13.40	
CHVI	12.06	13.28	13.24	13.35							

RBOC PROGRESS REPORT

186/021176

Aspect (degrees) 240
Slope (degrees) 15-20
Elevation (feet) 8500
Orientation (degrees) 226

LINE-STRIP DATA SHEET

SHRUB STRATUM 2nd Sheet

Project 83

Sheet 3 of 3

Vegetation Type Douglas Fir

Transect # 7

T 15 R 100W S 28 ¼ ¼ S NE NE Transect Length 100 m

Field Analyst(s) Ellis – Macgregor Date 7/13/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
SYME	10.78	10.9	12.05	12.07	12.20	12.27	13.99	13.70	5.79	5.81
	6.11	6.13	7.88	7.91	8.38	8.47	9.80	8.86	9.27	9.29
	9.63	9.65	10.66	10.79	11.48	11.50	12.55	12.58	12.85	13.1
	13.25	13.50	13.6	13.7	14.2	14.25	15.15	15.20	15.75	15.8
	16.0	16.1	18.9	20.0	0.0	0.72	12.62	12.67		
SYOR	11.07	11.68	14.8	14.95	4.31	4.65	10.42	10.57	10.75	11.26
	15.04	15.29	15.55	15.87	16.2	16.75	17.25	17.40	18.1	18.15
	18.62	19.0								
PRVI	10.75	11.13	11.95	12.10	2.38	2.68	14.10	15.18	15.95	16.1
	17.02	17.2	17.35	17.45						

186/021176

RBOSP PROGRESS REPORT

Aspect (degrees) 240
Slope (degrees) 15-20°
Elevation (feet) 2500
Orientation (degrees) 226

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 3

Vegetation Type Douglas Fir Transect # 7

T 15 R 100W S 28 ¼ ¼ S NE NE Transect Length 100m

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 SYOR	033	2	60	69	67	36	38	49
2 ROWO	041	2	45	17	35	17	13	11
3 AMUT	032	2	80	9	5	2	15	5
4 PSME [~1-2" seedlings primarily]	004	—	~7	87	330	365	16	0
5 ACGL	010	2	100	—	—	1	2	2
6 PRVI	023			—	—	—	7	30
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
SYOR	1.40	1.58	1.81	1.93	11.99	13.54	13.83	13.93	14.05	14.30
	14.92	15.19	15.70	15.75	16.32	16.36	19.35	19.6	19.8	20.00
	0.25	0.37	0.88	0.92	1.55	1.83	2.09	2.55	3.02	3.07
	3.18	3.22	2.61	3.73	4.12	4.26	4.50	4.62	7.0	7.05
	8.62	8.53	7.5	9.85	13.3	13.52	14.3	14.72	15.02	15.52
	12.1	12.20	12.25	12.55	10.4	19.6	4.91	5.0	6.65	6.73
	6.84	6.89	9.16	9.42	10.62	10.80	10.98	11.10	0.65	0.95
	1.88	2.54	4.03	4.45	4.19	4.80	5.57	5.49	10.45	10.92
AMUT	2.59	2.70	3.43	3.90	5.20	5.90	8.42	8.55	8.9	9.0
	14.0	14.10	5.28	5.40	8.52	8.71	11.10	11.20	12.68	12.75
	13.93	13.92	19.1	19.35	1.85	1.97	6.30	7.60	10.65	11.52
	12.1	12.5	13.25	13.6	15.35	15.41	15.6	15.90	19.5	19.7
	2.35	5.0	5.22	5.24	8.14	8.16	8.95	9.16	11.50	11.79
	18.29	18.35	19.0	19.95						
ROWO	3.50	3.62	5.70	5.90	9.3	9.37	13.6	13.7	15.85	15.90
	11.72	11.76	5.47	6.61	14.95	15.05	18.45	18.53		
PSME	1.10	1.12	0.0	0.07	0.20	0.32	0.76	0.78	1.25	1.25
	1.32	1.37	1.89	1.92	1.97	2.03	2.41	2.45	6.60	6.65

C.2.2.2

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83
Sheet 1 of 3

Orientation (degrees) 226°
Vegetation Type Douglas Fir Transect # 7 Type Non-Perm
T 15 R 100W S 28 1/4 1/4 S NENE Transect Length 100 m
Aspect (degrees) 340° Slope (degrees) 15-20 Elevation (feet) 8500
Field Analyst(s) Ellis - Macarenas Date 7/18/76
Site Description Douglas Fir on C.V. S. slope - mature - some dead QA Check Lum 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 PSME	004	—	3	4	3	3	7	
2								
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
PSME	0.0	0.70	3.25	10.05	13.65	19.00	2.70	6.55	40, 15, 33, 9, 18, 15,
	7.0	10.4	14.1	20.0	0.0	3.30	5.75	9.10	34, 10, 24, 22,
	16.2	20.0	0.0	2.45	4.30	14.0	16.1	20.0	7.5, 47, 29, 17, 20,
	0.0	15.85							8, 10, 9, 20, 9.

PROGRESS REPORT

Aspect (degrees) 330
Slope (degrees) 11
Elevation (feet) 9700
Orientation (degrees) 048

LINE-STRIP DATA SHEET

(SHRUB STRATUM) — 2nd sheet.

Project 93

Sheet 3 of 3

Vegetation Type Aspen

Transect # 7

T 15S R 100W S 33 ¼ ¼ S NW SW Transect Length 10 m

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check Lum 8-2-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
AMUT	10.70	10.77	11.31	11.55	16.05	16.55	7.42	7.50	10.25	12.50
	16.70	16.95	1.10	1.15	3.25	3.33	4.15	4.51	6.42	6.89
	9.00	9.20	13.7	14.1	14.25	14.35	17.4	18.55	3.15	4.49
	10.14	10.36	10.72	10.9	11.93	13.4				
ROWO	1.35	1.94	3.14	3.60	10.65	10.75	12.3	12.50	12.70	12.75
	1.55	1.77	6.47	6.55	7.85	8.09	9.12	10.28	11.47	11.74
PSME	19.40	19.85	5.48	5.80						
ACGL	12.1	12.30								
SYOR	18.8	18.95	17.2	19.45	19.6	20.0	0.93	5.64	5.92	6.00
	7.70	7.83	9.61	10.12	11.35	12.10	11.95	12.55		
ROWO	13.70	13.80	15.40	15.5	15.85	15.9	18.30	18.70	19.0	19.2

186/021176

BLM JOB PROGRESS REPORT

Aspect (degrees) 330°
Slope (degrees) 11°
Elevation (feet) 8700
Orientation (degrees) 048°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 183

Sheet 2 of 3

Vegetation Type Aspen Transect # 7

T 15 R 100W S 33 ¼ ¼ S NWSW Transect Length 100m

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check Lum 8-2-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 SYOR	033	2	50	49	29	53	42	36
2 POTR	003	2	100	3	0	1	2	2
3 PRVI	023	2	70	12	13	8	0	1
4 ACGL	010	2	100	6	15	13	4	1
5 ROWO	041	2	30	14	8	11	12	28
6 AMUT	032	2	75	27	17	25	16	10
7 PSME	004	—				1	1	1
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
SYOR	0.29	0.48	0.73	0.98	1.28	1.32	1.76	2.94	3.96	4.50
	4.58	4.96	7.75	7.83	2.26	9.41	10.30	10.35	13.05	13.45
	13.70	14.02	16.22	16.26	2.82	3.09	4.57	6.02	7.01	7.26
	12.62	13.38	13.44	13.72	14.80	14.95	19.35	19.40	1.36	1.72
	2.06	2.16	2.36	3.55	3.77	4.36	7.69	7.97	9.01	9.03
	8.67	9.07	9.42	9.63	10.32	10.65	13.50	13.75	13.70	17.90
	2.50	2.99	3.32	3.38	4.11	4.27	6.35	7.72	7.87	8.03
	11.75	11.95	15.55	15.6	11.1	11.45	17.5	17.6	18.55	18.7
PRVI	1.49	1.63	5.76	6.17						
POTR	0.74	1.16	1.29	1.61	13.00	18.20				
ACGL	6.92	7.11	16.40	16.42	7.36	7.38	12.52	12.69	12.88	13.02
	14.70	14.80	18.30	18.40	18.80	18.95	19.00	19.10	1.95	2.01
ROWO	5.60	5.66	5.03	5.11	6.24	6.28	9.72	13.81	9.18	9.22
	9.50	9.65	10.14	10.18	1.76	1.92	14.30	14.50	16.55	16.75
AMUT	18.20	18.95	19.40	19.95	0.50	0.94	2.93	2.98	3.67	3.85

PROGRESS REPORT

C.22.1

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 93

Orientation (degrees) 043° Sheet 1 of 3

Vegetation Type Aspen Transect # 7 Type Non-Perm

T 15 R 100W S 33 1/4 1/4 S NWSW Transect Length 100m

Aspect (degrees) 330° Slope (degrees) 11 Elevation (feet) 8700

Field Analyst(s) Ellis-Macgregor Date 7/10/76

Site Description Aspen on top of Cath bluffs QA Check bum 8-2-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 POTR	003	2	3	8	4	3	5	
2 PSME	004	—			1	1		
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
POTR	0.28	0.70	0.95	4.32	7.19	15.00	0.30	8.65	25, 22, 29; 22, 28
	10.10	12.95	14.50	20.00	4.30	7.60	8.56	10.00	14, 19, 13, 17, 21
	11.12	18.0	1.30	14.5	18.0	20.5	0.0	7.35	20, 16, 18, 13; 20, 15, 15
	7.60	10.74	12.0	20.00					40, 12, 20, 13, 19
PSME	13.60	17.40	19.40	20.00	00.50	3.30			26; [16, 15]

PROGRESS REPORT

096/060175

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May - June 1975 data C.2.2.7

Project 83
Sheet 1 of 1

Vegetation Type Riparian
Transect # 2

T_____ R_____ S_____ 1/4 1/4 S_____
Quadrat Size .5 m²

Field Analyst(s) Ellis / Sanz
Date 16 July 1976
QA Check bum 8-2-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat 1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agro repens	305	4			95		90																35
Epilobium sp. (milky sap)		2				3	2									3	1						
Elymus cinereus	200	4							75		80		95		75		70				30		15
Descur rich.	312	5						20	4					6	1								
Hord. jubat.	249	4,5							2										70				
Salidago sp.	130	2								1	20												
Poa pratensis	107	2											3										1
Chenop. hybrid.	059	2,3												15	15	4	4						
Agro Smith	052	4															1						
Taraxac. offic	203	2														4	2						
[illegible] st. spic.		2															T				15		
~~Epilobium sp.~~		~~2~~														3	1						
Juncus artic	306	4																	2				
Carex sp.	068	5																	15				
Poa ample	126	4,3																	2				
chenop fremont	198	2																		1	T	60	5
Kochia iranica	265	2																				1	T

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Reference May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.7

Vegetation Type Riparian

Transect # 3

T _____ R _____ S _____ 1/4 1/4 S _____

Quadrat Size .5 m²

Field Analyst(s) Ellis/ Sawyer

Date 16 July, 1976

QA Check bem 8-2-76

Quadrat Number

				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Elymus arenarius	200	3,4			100		100		95		5		60		100				1		65		
Ammophila brev.	312	5						9	5			9	30			12	25	4	2				
Agropyron repens	305	2,3									55		5				40		95		20		1
Chrysanthemum frutescens	198	3								14	10												
Chrysanthemum hybridum	059	2														3	5						
Chori. tepellus	252	4,5																1	1				
Juncus arcticus	306	5																					25
Carex sp. (small head)	068	5																					74

FOR PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Reference May - June 1975 data

Project 83
Sheet 1 of 1
C.2.27

Vegetation Type Riparian Transect # R1

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis - MacGregor (BR Malong) Date 7/19/76 QA Check Sum 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		—		—	
Solidago sp.	130	2		45	45					23	6	52	6	43	5	14	5	12	20				
Agro. repens	305	2,3		—	55	—	33	—	25	—	35	—	32	—	80	—	95	—	6	—	3		
Kochia iranica	265	2				1	T																
Plantago major		2												1	1								
Juncus arcticus	306	2,3,4																—	42			—	7
Ranunculus sybaloria	307	2,4,5																1	T	75	59	11	1
Triglochin maritima	144	5																		3	6		
Poa arcola	126	3,4																		—	T		
Carex nebraskensis	387	2																				—	35
Carex sp.	068	2																				—	25

REGS PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
See May-June '75 data

Project 82
Sheet 1 of 1
C.229

Vegetation Type Shadscale Transect # 3

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check Lum 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																					
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Oryzopsis hymenoides	100	5			1		0						0		T		0		0		1		
Chenopodium fremontii	198	7,3		4	T		↓	2	T	15	2		↓				↓		↓				
Artemisia frigida	013 (Shrub)	2		2	25		↓	1	1				↓	3	2		↓		↓	2	6	4	5

RBOSP PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
See May - June 75 data

Project 83
Sheet 1 of 1

C.2.2.9

Vegetation Type Shadscale — Transect # 1

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²

Field Analyst(s) Ellis / Sanz — Date 16 July, 1976 — QA Check Lum 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Happlopappus nuttali	155	3,4,5		1	4	2	T	.								1	2			2	3		
Eriogonium loncho.	172	2,4		1	2	2	2	11	10	8	8	2	2							4	4	3	2
Oenothera corsp	309	2								3	T	1	T	2	1								
Sphaer. coce.	181	2										15	5			1	T	2	2				
Oxytropis hymenodes	100	2											T		2								
Sitan. longe.	112	6													6								
Artemisia frig.	013 (Shrub)	3														1	2					1	4

PROGRESS REPORT

reference 11-June 1975 data

QUADRAT DATA SHEET
HERBACEOUS STRATUM

Project 83
Sheet 1 of 1

Vegetation Type Bald
Transect # 3 C.G 2.10

T ____ R ____ S ____ ¼ ¼ S ____ Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz Date 17 July, 1976 QA Check June 8-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Poa sand.	108	6,7			29		8				10		10		5		6		25		15		25
Astr. spat.	292	6,7		6	8	6	10	5	4	7	8	1	2	2	5					3	5	4	1
Agro. trachy.	054	2			5		6		5				T		10								4
Hap. nutt.	155	3		2	T					2	1	1	1	5	4					3	4		
Penst. caes.	103	2		5	4	3	5	4	3			1	T	5	6	8	5	1	2	3	T	1	T
Art. fri.	013 (shrub)	2		2	T	5	5			2	1							1	2	1	1	2	1
Hymen. acaulis	311	2,4		1	1			5	6	3	4					8	8			6	5	4	5
Eriogonum loncho.	172	4				1	1	1	1			1	T			2	4			1	5	1	2
Koeleria grac.	090	2,6							2						4								
Astr. chamele.	208	2								1	T	1	T	3	1			1	T				
Art. drac.	257	2								3	4					2	4						
Oxytro. lamb.	101	2										1	1	1	T								
Ipomop. agri.	273	2,4,5										5	5	1	1								
Linum lewisi	190	4,5										3	4										
Trif. gymn.	173	2										2	T	1	T	2	1	1	1	2	T		
Gut. serot's.	012 (shrub)	3										2	4							1	1		
Eriogonum pumil.	274	6										1	T										
Androsace septen.	056	6												1	T								
Phlox long.	156	2																2	T				

BOOKLESS WEIGHT

Aspect (degrees) ..
Slope (degrees)
Elevation (feet)
Orientation (degrees)

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reformed M-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.10

Vegetation Type BALD
Transect # U1
T R S 1/4 1/4 S
Quadrat Size 0.5m²

Field Analyst(s) Ellis - Macgregor [BRM observing]
Date 7/19/76
QA Check brm 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓			
Haplopappus acaulis	153	2		3	5	4	10	8	25	2	4					4	10	4	4				
Phlox hoodii	209	7		5	4					3	4	3	7					1	1				
Astragalus spatulatus	292	2		6	2	3	1	2	1	5	1			1	T			2	1			1	1
Arenaria fendleri	315	4,5		2	T	3	T	2	T	1	T	4	1	1	T			4	T	3	T	2	T
Koeleria gracilis	090	2		-	4	-	1	-	3	-	5	-	2	-	4	-	3	-	T	-	1	-	2
Poa sandbergii	108	2		-	2	-	T			-	2							-	T	-	T	-	T
Hymenoxys acaulis	311	2		2	1	1	T	4	1	4	1			2	T	2	T			1	T	7	1
Haplopappus nuttallii	155	2,3		1	1	5	5			3	1	3	2	1	T			6	3	7	1	12	2
Agropyron trachycaulum	054	2		-	3	-	1			-	4	-	3	-	3	-	T	-	1	-	6	-	4
Phlox longifolia	156	7				5	T							3	T			3	T	4	T		
Astragalus chamaeleuce	208	2						1	T			1	T	2	T			1	T	1	T	1	T
Hedysarum boreale	174	2						1	1			1	4										
Lygodesmia juncea	085	2						4	1					1	T								
Trifolium gymnocarpon	173	2								1	T									2	T		
Eriogonum lonchophyllum	172	4								1	2	2	3	2	1								
Gutierrezia sarothrae	012 (Shrub)	3								1	T			2	1			2	1				
Physaria floribunda	175	2										2	T										
Sphaeralcea coccinea	181	2										2	T										
Comandra umbellata	280	2												5	4								
Chrysothamnus viscidiflorus	194	2												1	T								
Euphorbia fendleri	267	2												1	T								
Erigeron pumillus	274	2														3	1			1	T		
Ipomopsis aggregata	273	2,5														2	T						
Castilleja chromosa	154	2																1	T				
Senecio multilobatus	251	2																		2	T		
Penstemon caespitosus	103	2																		2	T	3	T

PROGRESS REPORT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.b

Vegetation Type Rabbitbrush Transect # 1

T____ R____ S____ 1/4 1/4 S____ Quadrat Size 0.5 m 2

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check bem 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																					
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Elymus cinereus	200	2,3			20		25		20		20		20		45		35		80		20		15
Bromus tectorum	067	6,7			2		15		30		5		15				3						30
Poa gradensis	107	7									5												
Dist. spic.		7									1												
chenop. fremontii	198	3																		5	T		
Ort. ludovic.	147	3																		2	4		

RBOSP PROGRESS REPORT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.6

Vegetation Type Rabbitbrush Transect # 2

____ R____ S____ 1/4 1/4 S____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check bm 8-2-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Poa pratensis	107	5,6			15		10		4						5		30		25		4		
Distichlis spic.		3			T						25				T		T		15				5
Elymus cinereus	200	2,4,3,			30		45		45		60		100		85		30		T		85		60
Agropyron smithii	052	2					3								1						T		
Juncus articus	306	5															10		5				
Bromus inermus	149	5																	15				
Aster sp.	061	2																		1	1		

RDOSR PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

ref. May-June '75 data

Project 83
Sheet 1 of 1

C.2.2.3

Vegetation Type Grassland

Transect # 2

T _____ R _____ S _____ 1/4 1/4 S _____

Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz

Date 16 July, 1976

QA Check bmw 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Chenop. fremontii	198	3		12	5	35	12	15	5	35	5	27	5	30	5	2	T	32	4	40	10	2	T
Bromus tectorum	067	7			50		25		15		10		5		5		3		2				T
Lappula redow.	199	6				1	T					15	4	25	4	14	1					12	T
Sitanion longif.	112	2,7											T		1						2		
Agro smithii	052	2															4						T
Kochia iranica	265	2,																		2	T		
Elymus cinereus	200	2,																			T		1
chenopod. sp. (long leaf)	070	3																				1	T

RECEIVED PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Mf. May-June 1975 data

Project 83
Sheet 1 of 1
C.2.23

Vegetation Type Greasewood Transect # G 3

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Macgregor Date 7/19/76 QA Check bum 8-2-76

Species	Code #	Phen	Ht.(cm)	Quadrat Number 1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Kochia iranica	265	2		115	25	155	25	65	5	55	5	170	20	20	3	4	T	1	T	120	5		
Chenopodium album	268	3		2	T	28	3	35	12	35	6	3	T	2	1	2	T	48	7	4	T		
Lepidium montanum	247	2		5	T	1	T	4	1			1	T	1	T	2	T	8	1				
Aeropyron smithii	052	2		-	T					-	4												
Agropyron desertorum	051	2				-	4	-	T	-	2	-	4			-	15	-	6	-	10	-	20
Lapula redowskii	199	7				1	T																

FIELD DATA REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
refer. May-June 1975 data

Project 83
Sheet 1 of 1
C.223

Vegetation Type Greasewood Transect # G4

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Macgregor Date 7/19/76 QA Check Lum 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
G.A.f. Chenopodium album	268	3		35	25	65	5	36	6	23	6	30	15	24	5	39	4			17	5	5	1
Agropyron smithii	052	2		–	25	–	6	–	20	–	15	–	5	–	5	–	3	–	2	–	3	–	20
Lapula redowskii	199	6		1	T																		
G.9.7 Chenopodium spi. (1 leaf green)	070	2				1	T			1	T			1	T	1	T	6	1	2	T		
Poa pratensis	107	7										–	1	–	1								
A																							

BLM PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Ref. May-June 1975 data

Project 50
Sheet 1 of 1
C.2.2.8

Vegetation Type Sagebrush Transect # 52

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis/Haegar Date 7/19/76 QA Check brm 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		—		—	
Sphaeralcea coccinea	181	2		14	1			3	T			1	T	2	T	2	T	3	T				
Ipomopsis congesta	269	5		2	1																		
Phlox hoodii	209	2,7		2	1	1	T	1	1	3	2			1	T			1	T	3	5	2	7
Oryzopsis hymenoides	100	5		—	3	—	4	—	6	—	6			—	1	—	1					—	1
Astragalus chamaeleuca	208	6		2	1			2	T	2	1											1	T
Haplopappus nuttallii	155	3		1	2																		
Eriogonum ovalifolium	225	2		1	T																		
Stipa comata	115	2				—	3	—	2	—	4									—	T		
Chrysothamnus viscidiflorus	194	6				1	6			1	2												
Poa sandbergii	108	6				—	5	—	4			—	3					—	T			—	1
Eriogonum sp. annual	078	2								1	T												
Agropyron trachycaulum	054	2										—	3	—	2	—	2	—	3	—	T	—	2
Phlox longifolia	156	6												5	1			2	T	19	1		

Less than 1%

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
N. Map - June 1975 data

Project 80
Sheet 1 of 1
C.22.8

Vegetation Type Sagebrush Transect # 54

T _____ R _____ S 5 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis / Macgregor Date 7/19/76 QA Check from 8-2-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				0 ✓		0 ✓		✓		✓		✓		✓		✓		✓		✓	
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Sitanion longifolium	112	6		(0)		(0)		-	1	-	T	-	1	-	T	-	1	-	1	-	1		
Euphorbia fendleri	267	4		✓		✓		1	1														
Sisymbrium linifolium	316	2		✓		✓		1	T			1	T	1	T			5	1	4	T	2	T
Chenopodium album	268	3								8	1	2	T	1	T	2	T	3	1	11	4		
Senecio multilobatus	251	2								1	T												
Lapula redowskii	199	6								1	T							1	T				
Agropyron trachycaulum	054	2										-	2	-	1							-	T
Oryzopsis hymenoides	100	2										-	1										
Poa sandbergii	108	2														-	1					-	1
Artemisia frigida	013 (Shrub)	2														1	4						
Bromus tectorum	067	6																-	T				

ROCKY PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Ref. May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.8

Vegetation Type Sagebrush Transect # 3

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz Date 17 July, 1976 QA Check Lum 8-2-76

Species	Code #	Phen	Ht.(cm)	Quadrat Number 1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Carex geyeri	160	2			40		40		30		65				25		40		3				
Eriogonum umbel.	128	4,5		2	5	4	4					1	T					2	7				
Galium boreal	083	2		5	1	13	8			4	1	4	1	19	6	5	T	31	6	17	5		
Lupinus argen.	343	4		1	4	2	6	1	5			1	2	2	4			3	8				
Agro. smith	052	2			1								1						1		T		T
Geran. richardsonii	084	2				2	7			1	5	1	15							2	5		
Ach. lan.	050	2				2	T			4	T	3	T										
Ligusticum port.	340	2						4	5														
Erigeron speciosus	275	2								2	T			11	2								
Comm. umbel.	280	2,4,5								3	1	1	T	1	T			1	T	15	6		
Elym. columb.	276	4											40						1		5		4
Agro. trach.	054	3											1										
Taxax. off.	203	2										1	1										
Phlox long.	156	5										1	1										
Astrag. tene.	282	2												4	1	1	T	2	1	2	2		
Heiin. unif.	283	2														1	2	1	T				
Crepis acum.	243	2																		2	5		
Cast. chrysa.	154	4																		1	2		

INTERIM PROGRESS REPORT

ref. May-June 1975 data

QUADRAT DATA SHEET

HERBACEOUS STRATUM

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # 2 C.2.2.8

T ( ) R S ¼ ¼ S) Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz

Date 17 July 1976

QA Check Lum 8-2-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Phlox multi.	157	6		5	40			3	4	2	12	5	50										
Eriogon. pumil.	274	2		1	T															1	T	1	T
Poa sandbergii	108	2			3		7		10		3		4		5		25		8				15
Lupinus arcent.	343	6				4	40			1	8	2	3	1	1	4	10	2	15	5	30	3	2
Penst. caesp.	103	2				4	3	2	2	1	2			3	10	2	T			2	1	3	T
Trifol. gymno.	173	2				5	T			2	T	2	T	3	T	1	T	2	1	3	T		
Agro. trach.	054	2					T		5		T						2		T				
Astr. purshii	285	7								1	1												
Stipa comata	115	2									5						7						
Cast. chromo.	154	2										2	T			1	T						
Carex. fremontii	272	7												1	1	1	T	1	9				
Lygmop. asperrata	273	4,5												1	1					2	T		
Oryzop. hymen	100	2													2								
Phys. fibriovata	175	2												1	T								
Spir. cor.	181	2														1	T						
Kich. spic.	090	6																	1		1		1
Hedy. boreal	174	2																				1	12

DUPLICATE REPORT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Ref. May - June 1975 data

Project 83
Sheet 1 of 1
C.2.2.3

Vegetation Type Sagebrush
T____ R____ S____ 1/4 1/4 S____

Transect # 11
Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz
Date 16 July 1976
QA Check hcm 8-2-76

				Quadrat Number 1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Lepid. ment.	247	4		2	1			4	T	6	1	10	T	1	1			8	T	3	T	2	1
chrys. fremontii	198	2		2	T	3	T	7	T	10	3	3	T	1	T	3	T	12	1	1	T	5	T
Sisymb. linifo.	316	2,5						2	T			4	T										

PROGRESS REPORT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
→ ref. May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.8

Vegetation Type Sagebrush

Transect # 6

T____ R____ S____ 1/4 1/4 S____

Quadrat Size .5 m²

Field Analyst(s) Ellis / Searcy

Date 16 July, 1976

QA Check bem 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area																							
Sitanion longifolium	112	6,7		-	20			-	10														
Bromus tectorum	067	6,7		-	T																		
Chenopodium fremontii	198	2		19	2	4	T																
Lepidium montanum	247	2		1	T																		
Agropyron smithii	052	2				-	T			-	2	-	5			-	35	-	24				
Elymus cinereus	200	2								-	15	-	8	-	45			-	3	-	15	-	5
Phlox longifolia	156	5								1	T												
Poa sandbergii	108	2								-	1												
Poa pratensis	107	2										-	8										
Taraxacum officinale	203	2										2	1										
Agropyron trachycaulum	054	5												-	5								
Dist. spic.		2												-	2								

REDSP PROGRESS REPORT

Aspect (degrees)_____
Slope (degrees)_____
Elevation (feet)_____
Orientation (degrees)_____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Ref. May-June 1975 data

Project C.E.A.S. 8
Sheet 1 of 1

Vegetation Type [illegible] Sagebrush Transect # 55

T____ R____ S____ 1/4 1/4 S_____ Quadrat Size 0.5 m^2

Field Analyst(s) Ellis - Macgregor Date 7/19/76 QA Check bum 8-2-76
[BRM observing]

Quadrat Number

Species	Code #	Phen	Ht. (cm)	1		2		3		4		5		6		7		8		9		10	
				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Percent Bare Area																							
Stipa comata	115	2		-	4	-	5									-	4	-	1	-	1		
Poa sandbergii	108	2		-	6	-	8	-	10	-	9	-	20	-	15	-	2	-	15	-	4	-	28
Erigeron pumillis	274	2, 7		2	1	1	T	1	T	5	3	3	1	3	1	5	1	1	T	4	1	6	T
Crepis accuminata	243	7		1	T	1	T							2	4			4	2	1	T	1	1
Chryptantha sericea	194	2		1	1			1	1	1	T			3	1					1	T		
Agropyron trachycaulum	054	2				-	2			-	T	-	T	-	1	-	T	-	1	-	T	-	1
Trifolium gymnocarpon	173	2				1	T			1	T	1	T	2	T	1	T			2	T		
Phlox longifolia	156	2, 6						5	T	9	2	1	T	2	T					20	2		
Sphaeralcea coccinea	181	2, 3												4	T					4	1	6	1
Astragalus purshii	285	6												1	T								
Koeleria gracilis	090	=												-	1	-	1						
Phlox hoodii	209	7																1	T				
Castilleja chromosa	154	6, 7																		2	1	1	1
Lupinus argenteus	343	7																				2	5

REDOX PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference may - June 1975

Project RBOSP-83
Sheet 1 of 1
C.2.25

Vegetation Type Pinyon - Juniper
Transect # P15

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check bm 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓				✓	
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Hoplopappus nuttallii	155	3		1	5					1	2							0				0	
Agropyron trachycaulum	054	2		-	4			-	T			-	1	-	T			V					
Desc. rich.	312	7				1	T																
Oryz. hymen.	100	2								-	4	-	2										
Euphor. fendleri	267	3								8	5												
Carex sp.	068	2												-	4								
Antenn. microphylla	291	2												5	T								
Chaena. douglasii	258	2												1	T								
Poa sandbergii	108	2														-	10			-	8		
Balsam. sagittata	063	2														1	1						

RBOSP PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reponse May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.1

Vegetation Type Pinyon - Juniper — Transect # 5

T ___ R ___ S ___ 1/4 1/4 S ___ Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check burn 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agso Trachy	054	2			5		1		T											1		T	T
Pu Sand	108	2			3		2										4						1
Phlox hoodi	209	2		1	1	1	1	1	T			2	2			4	4			1	T		
Hapl. pubt	155	6,3				1	T	1	1														
Penst. Caesp.	103	2						2	1							2	1						
Phys. floribunda	175	2						1	T														
Trif cymmo	173	2								1	T												
Sphaer Coccinea	181	2										2	T										
Lygodesmia juncea	085	2										2	1										
Crypt servic	194	2,6										1	T	3	1	4	1					1	T
Agso Smith	052	2															1						
Astrag. purshii	285	2																				T	T

RBCSP PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
→ Reference May - June 1976 data

Project 83
Sheet 1 of 1
C.2.2.5

Ve ation Type pinyon - juniper Transect # 4

T ___ R ___ S ___ 1/4 1/4 S ___ Quadrat Size .5 m²

Field Analyst(s) Ellis / Sanz Date 16 July, 1976 QA Check burn 8-2-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat 1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Oryzopsis hymenoides	100	2			T		1										2						1
Eriogonum lonch.	172	4,5				2	4			1	T	2	1	2	4	8	6	1	2				
Agve. trach.	054	6							6		8						T		4		8		20
Hesplo. nutt.	155	4,5,6						1	4							1	2			1	T	2	5
Euphorbia fendleri	267	4						1	1							2	1	2	1			6	1
Crypt. sevie.	194	2																1	T				
																						2	

RBO3P PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
→ reference may-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.5

Vegetation Type Pinyon - Juniper

Transect # 3

T ____ R ____ S ____ 1/4 1/4 S ____

Quadrat Size .5m²

Field Analyst(s) Ellis / Sanz

Date 16 July, 1976

QA Check Jun 8-2-76

Quadrat Number

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Chrys. douglasi	258	2		1	2					1	2				0								
Ipomo. congesta	269	4		1	T			1	T														
Agropyron trach.	054	2			T						T						1		3				1
Euphorb. fendleri	267	4		1	T			1	1							2	1	2	2	3	T		
Artem. fendleri	315	2				2	T																
Eriogon. lonche.	172	2,3A				2	T			2	1									3	2		
Haplo. mult.	155	2						1	1	2	T									1	T		
Lygodesmia juncea	085	2								1	T												
Astrag. pursh	285	2								1	T	1	T										
Strept. cordo.	290	5																1	1				
Oryz. hymen.	100	2,4																			1		
Carex heidi	209	2																		1	T		

RBCCP PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
1975
reference May-June data

Project 83
Sheet 1 of 1
C.2.2.5

Vegetation Type Pinyon - Juniper
Transect # 1
T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²
Field Analyst(s) Ellis / Sanz
Date 16 July, 1976
QA Check bmw 8-2-76

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
Percent Bare Area																							
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Oryzopsis hymenoides	100	2			T						2				9		5		2				
Eriogonum umbellatum	128	5				2	3	1	5														
Agropyron trach.	054	2					6																4
Poa Sandbergii	108	2							5												3		
Phlox hoodii	209	2,7						2	5													1	4
Erig. pumil	274	2						2	T														
Cryptt. scric.	194	2,6						1	T	1	T	1	T							2	2	5	5
Senec. multilobatus	251	2						1	T														
Antenn. microph.	291	2						1	T														
Sitemium long.	112	5							1												5		3
Pel. grac.	090	2									1												
Sphaer. cocc.	181	2																		6	1	2	

RDCP PROGRESS REPORT

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
reference May-June 1975 data

Project 83
Sheet 1 of 1
C.2.2.5

Vegetation Type Pinyon - Juniper Transect # P 13

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size 0.5 m²

Field Analyst(s) Ellis - Macgregor [BRM observing] Date 7/19/76 QA Check bmw 8-2-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
Stipa comata	115	2		–	4	–	2			–	T												
Agropyron trachycaulum	054	2				–	1	–	1	–	1			–	1	–	T	–	1	–	1	–	4
Phlox longifolia	156	2				1	T					4	T	1	T					1	T		
Trifolium gymnocarpon	173	2, 7				1	T	1	T			1	1					1	T	1	T		
Poa sandbergii	108	2						–	1	–	1	–	T	–	4	–	T	–	6	–	2	–	8
Carex sp.	068	2						–	4														
Sphaeralcea coccinea	181	3						15	5					13	4								
Astragalus chamaeulca	208	2						1	T														
Chryptantha sericea	194	2, 7						2	3			1	T			2	T	1	1				
Phlox hoodii	209	2						2	1														
Bromus tectorum	067	6,7								–	1												
Oryzopsis hymenoides	100	5,6										–	5										
Crepis acuminata	243	2														1	T						
Sisymbrium linifolium	316	2														2	T						
Erigeron pumillus	274	2																2	1				

REOCP PROGRESS REPORT

LINE-STRIP DATA SHEET

~~NATURE-FREE STRATUM~~ SHRUB SECAD SHEET

Project 83

Orientation (degrees) 270° Sheet 2 of 2

Vegetation Type Mixed Brush Transect # 24 Type non-perm

T 15 R 100W S 14 1/4 1/4 S SE/NW Transect Length 100m

Aspect (degrees) see other page Slope (degrees) _____ Elevation (feet) 8000'

Field Analyst(s) DLK, RDM Date 7/16/76

Site Description — QA Check Lum 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1								
2								
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
QUGA	1.39	1.61	1.79	1.85	2.10	2.13	4.19	4.37	
	4.62	10.43	15.74	16.00	16.81	17.16	19.48	19.52	
SYOR	11.24	12.29	14.02	14.25	19.43	19.66			
AMUT	11.69	13.91	15.09	15.19	15.86	16.24	17.11	17.13	
	18.63	18.65							

PROGRESS REPORT

996/060175

Aspect (degrees) 130°
Slope (degrees) 12
Elevation (feet) 5200
Orientation (degrees) 200°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.24
Project 83

Sheet 1 of 2

Vegetation Type Mixed Brush

Transect # 25 SE

T 15 R 100W S 15 ¼ ¼ S SE/SW

Transect Length 100 M

Field Analyst(s) DCK, RDM

Date 7/16/76

QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Arnt	032	2	80	30	47	41	41	23
2 Artr	014	2,3	60	72	51	20	26	16
3 Syor	033	2	20	54	38	63	44	57
4 Putr	024	2	35	9	17	3	0	0
5 Chvi	020	2	30	2	3	0	4	5
6 Quga	025	2	50	0	1	32	26	36
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Arnt	[illegible]	0.56	7.22	7.38	[illegible]	7.85	0.25	1.00	[illegible]	8.31
	10.54	10.99	11.98	12.03	12.20	12.50	12.70	12.85	16.97	16.92
	17.36	17.46	18.10	18.50	18.88	19.44	0.58	1.50	5.55	9.57
	10.07	10.41	12.36	15.15	15.52	17.26	17.61	18.59	18.98	20.00
	1.03	1.28	1.81	2.01	3.15	3.68	3.89	8.22	8.50	8.94
	10.44	10.73	10.95	11.23	11.31	11.57	11.82	12.23	12.57	17.53
Putr	10.50	10.99	11.00	11.21	5.65	5.82	5.99	6.42		
Artr	0.35	0.55	0.90	1.51	1.60	2.08	5.22	5.35	5.43	5.90
	6.75	7.92	15.33	15.48	16.20	17.32	15.45	15.81	18.95	19.14
	19.37	19.45	4.22	4.73	4.89	4.96	13.86	13.94	14.08	14.90
	15.15	15.98	18.35	20.00	0.00	0.48	0.58	1.08	7.00	7.41
	7.55	7.98	8.27	8.45	9.51	9.69	4.14	[illegible]	15.23	15.53
	17.75	17.89								
Syor	3.29	3.47	16.53	16.84	15.58	18.90	4.42	4.76	11.67	11.81
	12.04	12.09	12.52	12.64	13.22	13.37	14.74	14.99	11.10	11.32
	13.54	13.68	13.95	14.26	15.40	15.52	15.84	16.04	17.90	17.95
	1.64	1.73	2.38	2.47	4.14	4.37	18.77	18.99	1.10	1.29
Quga	17.48	15.98	5.39	5.53	7.40	8.03	9.20	9.75	12.01	12.15
	12.63	13.02	13.10	13.44	13.95	14.13	14.93	15.10	15.99	16.80

186/021176

Aspect (degrees) 130
Slope (degrees) 12°
Elevation (feet) 6200'
Orientation (degrees) 200°

LINE-STRIP DATA SHEET

SHRUB STRATUM 2nd page

Project 83

Sheet 2 of 2

Vegetation Type Mixed Brush

Transect # ~~25~~ continued

15 R 100W S 15 ¼ ¼ S SE/SW Transect Length 100 m

Field Analyst(s) DLK, RDM Date 7/16/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Tsuga	18.55	18.76	18.88	19.50	19.59	20.00	0.55	0.66	4.72	5.56	
	12.09	12.57	13.51	13.55	13.55	13.97	13.99	14.75	18.05	18.21	
	18.38	18.94	9.23	9.27	9.55	10.22	12.20	12.51	12.59	12.84	
	12.96	13.19	13.51	14.62	16.58	17.18	18.27	18.53	18.90	19.06	19.28 19.
	9.92	10.14									19.77-19
Abies	18.06	18.47	18.94	20.00	0.00	0.51	0.54	3.25	4.41	5.73	
	6.20	5.52	5.69	9.93	10.29	11.40	11.82	11.94	13.15	14.63	
	14.78	15.69	16.46	17.54	17.98	18.36	18.50	18.57	18.73	20.00	
Spor	1.96	2.15	3.18	3.40	5.50	5.63	5.79	5.87	6.01	6.08	
	10.72	11.09	11.33	11.52	14.53	14.81	15.57	16.06	17.59	17.71	
	17.95	17.98									

[illegible] NO CROSS REPORT

186/021176

C.2.24

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Orientation (degrees) 250° Sheet 1 of 3

Vegetation Type Mixed Brush Transect # 26 Type Non-forest

T 15 R 19W S 28 1/4 1/4 S NWNE Transect Length 100m

Aspect (degrees) 160° Slope (degrees) 10° Elevation (feet) 8400

Field Analyst(s) Ellis - Macarenas Date 7/19/76

Site Description Caterpillar Hills - ridge top, heavy mixed brush QA Check bm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 PSME	004	—				1	1	
2								
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
PSME	7.0	10.9							9; 28

Aspect (degrees) 160°
Slope (degrees) 10°
Elevation (feet) 8400
Orientation (degrees) 250°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet # 1 tree was missing Sheet 2 of 3

Vegetation Type Mixed Brush Transect # 26

T 15 R 100W S 28 ¼¼S NW/NE Transect Length 100m

Field Analyst(s) Ellis - Macgregor Date 7/18/76 QA Check bmw 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 AMUT	032	2	180	18	13	23	7	7
2 SYOR	033	2	50	27	25	45	15	25
3 APTR	014	2,3	50	24	15	21	30	34
4 CHVI	020	2	30	3	5	0	0	1
5 PUTR	024	5	40	3	0	0		0
6 QUGA	025	2	200		8	15	4	0
7 PSME	004	NA	300			1	0	0
8 TECA	031	2	30				11	0
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
AMUT	0.0	0.10	6.2	7.40	10.15	11.4	12.3	13.2	15.4	16.4
	8.13	9.87	9.71	12.59	12.82	12.90	17.95	18.49	19.0	20.0
	0.0	0.60	4.05	4.52	4.70	4.98	6.65	7.20	10.89	12.01
	12.8	13.1	13.33	16.4	16.75	16.97	6.92	12.05	12.3	13.70
	3.83	8.0	11.1	11.30	12.0	12.21	12.70	14.5		
SYOR	4.28	5.9	7.3	8.05	8.25	9.45	3.6	3.90	9.9	10.05
	13.4	13.95	2.98	3.04	3.79	3.39	9.92	12.37	17.70	18.79
	19.0	19.15	0.40	1.04	4.8	4.39	10.98	11.60	11.9	12.23
	13.45	14.8	16.95	17.27	13.3	19.55	1.45	2.28	8.46	8.95
	9.85	11.09	2.75	2.85	4.25	5.95	6.6	7.45	10.25	10.30
	12.58	13.05	13.7	14.15	15.45	15.75	17.5	17.55	18.15	18.53
	19.7	19.95								

186/021176

Aspect (degrees) 160
Slope (degrees) 12
Elevation (feet) 8460
Orientation (degrees) 250

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 3 of 3

Vegetation Type Mixed Brush Transect # 26

T 15 R 100W S 23 ¼ ¼ S NWNE Transect Length 100m

Field Analyst(s) Ellis - Macgregor Date 7/19/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
ARTR	0.10	0.50	0.97	1.24	3.48	3.52	14.95	15.2	16.3	17.0
	17.85	17.90	5.86	6.10	6.24	6.38	8.03	8.10	16.1	16.50
	3.70	3.75	7.56	7.76	17.35	17.70	17.8	18.25	2.71	3.19
	4.50	4.88	5.02	5.20	6.48	6.64	12.95	13.37	15.70	15.80
	16.30	16.58	16.70	16.84	11.58	11.64	16.0	16.33	18.30	18.9
	19.6	19.70								
PUTR	18.75	18.90								
CHVI	1.10	1.23	4.02	4.60						
QUGA	14.90	15.70	16.15	16.95	17.65	17.90	19.8	20.0	0.0	0.45
	2.30	2.55	3.22	3.30	12.72	13.40	16.4	16.80	19.5	19.6
	0.30	2.29	6.15	7.19	7.43	7.65	7.80	8.30	10.47	10.98
	12.0	12.35								
TECA	19.25	19.50								

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Orientation (degrees) 42°

Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect # 36 Type non-perm.

T 15 R 99W S 20 1/4 1/4 S SW/SW Transect Length 100 m

Aspect (degrees) 128° Slope (degrees) 20° Elevation (feet) 7200

Field Analyst(s) RCS Date 7/18/76

Site Description open stand with occurrences of Artemisia tridentata QA Check hmm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Juos	001	2	1	1	2	0	0	normal
2 Pied	002	2	1	0	0	0	0	normal
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Juos	18.37	20.00	0.00	2.09	0.00	2.14	11.99	17.98	Q1 - 77, 51
									Q2 - 5
									Q3 - 21, [24, 16, 11, 9]
									Q4 - 0
									Q5 - 6
Pied									Q1 - 61
									Q2 - —
									Q3 —
									Q4 —
									Q5 —

RECEIVED PROGRESS REPORT

Aspect (degrees) 120°
Slope (degrees) 25°
Elevation (feet) 7200
Orientation (degrees) 42°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type PINYON JUNIPER

Transect # 36

T 15 R 99W S 20 ¼ ¼ S SW/SW

Transect Length 100 m

Field Analyst(s) DLK,

Date 7/18/76

QA Check Lum 8-3-76

	Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1	Cemo	017	2	115	14	7	0	0	0
2	Amal	034	2	45	6	9	0	0	0
3	Atco	016	2	21	8	2	24	34	55
4	Eovi	021	2	40	4	0	0	0	0
5	Juos	001	2	80	1	1	0	0	1
6	Pied	002	2	80	1	2	0	0	0
7	Syor	033	2	14	4	0	0	0	0
8	Artr	014	2	58	0	0	2	1	21
9	Chna	019	2	31	0	0	0	1	1
10									

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Cemo	1.60	1.78	9.21	10.81	16.70	17.58	17.60	18.86	19.81	20.09
	0.20	1.02								
Chna	19.55	19.72								
Amal	1.82	2.38								
Artr	2.45	3.26								
Syor	16.59	16.65								
Atco	5.12	5.65	6.35	6.74	6.72	7.01	9.61	10.00	15.51	16.29
	19.05	19.68								

RBCCP PROGRESS REPORT

186/021176

C.2.25

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project S3

Sheet 1 of 2

Orientation (degrees) 091°

Vegetation Type Pinyon Juniper Transect # 37 Type Non-permanent

T 25 R 99 W S 13 1/4 1/4 S SW / NE Transect Length 100

Aspect (degrees) 314° Slope (degrees) 1% Elevation (feet) 6920

Field Analyst(s) DCK, RDM and CEMO Date 7/17/76

Site Description mature stand with AMUT QA Check bcm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 JUOS	001	3, 7	4	4	3	2	4	4 mature, some seedlings
2 PIED	002	3	1	2	3	1	0	
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
JUOS	1.80	4.85	13.45	12.75	4.34	11.75	12.60	13.38	51, 21, 64, [47, 58, 4;
	14.30	17.55	0.27	3.35	9.70	12.98	0.12	3.22	[33, 28, 30], 51, 45, [illegible]
	5.55	6.03	11.23	12.98	17.63	18.08			43, 52, 25, 52
									[44, 70, 33, 30]; 51, 51
									38, [21, 22, 14, 7]
PIED	0.40	1.90	0.63	3.70	6.50	12.34	15.03	16.38	10; 10, 11; 49, 51, 50; 1

RBOSP PROGRESS REPORT

Aspect (degrees) 314°
Slope (degrees) 11°
Elevation (feet) 6920'
Orientation (degrees) 091°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Pinyon - Juniper

Transect # 37

T 25 R 99W S 13 ¼ ¼ S SW/NE Transect Length 100m

Field Analyst(s) DCK, RDM Date 7/17/76 QA Check bm 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	032	2	100	1	0	3	8	14
2 Syor	033	2	20	6	3	0	0	6
3 Pied	002	2	150	9	7	1	2	3
4 Juos	001	2	15	0	1	0	0	0
5 Pich	024	2	30	0	0	0	2	6
6 Como	017	2	100	15	21	6	0	0
7 Arto	014	2,3	50	0	2	9	25	42
8 Chvi	019	2	15	0	1	1	1	1
9 Opso	037	2	5	0	0	0	1	3
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Como	16.75	17.32	17.81	18.78	0.60	0.84	8.23	8.86		
Juos	1.20	2.71	2.47	4.05						
Artr	0.91	1.21	11.32	11.38	12.00	12.09	14.73	14.78	0.33	0.64
	0.93	1.00	9.65	10.23	11.92	12.14	12.37	12.80	13.45	14.00
Pied	1.67	1.72								
Artr	6.02	6.31	17.84	17.89						

RBOSP PROGRESS REPORT

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Orientation (degrees) 315° Sheet 1 of 2

Vegetation Type Pinyon-Juniper Transect # 38 Type Non-perm. t

T 25 R 99W S 23 1/4 1/4 S SW/SW Transect Length 100 m

Aspect (degrees) 320 Slope (degrees) 3-5° Elevation (feet) 7100'

Field Analyst(s) RDM, DCK Date 7/17/76

Site Description Young stand with understory pinyon + juniper QA Check bm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 JUOS	001	2	2	2	2	1	3	Some dead, some sick
2 PIED	002	2	0	3	0	1	3	Some tip burn, some insect damage
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
JUOS	16.49	18.57	5.64	5.82	6.68	9.27	10.77	12.68	[13, 14, 8], [7, 19, 12], [9;
	18.63	19.42							11, 11], 10; 18, [17, [illegible];
									23; [16, 11], [13, 9, [illegible]],
									14
PIED	5.70	6.82	10.28	11.15	16.97	20.00	0.00	0.53	12, 14, 11; 22; 13, 11
	3.61	10.29	10.55	10.89	18.55	20.00			20

[illegible] PHOENIX [illegible]

096/060175

Aspect (degrees) 320°
Slope (degrees) 3-5°
Elevation (feet) 7100'
Orientation (degrees) 245°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Pinyon Juniper — Transect # 38

T 25 R 99W S 23 ¼ ¼ S SW|SW — Transect Length 100 m

Field Analyst(s) DCK, RDM — Date 7/17/76 — QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	40	70	71	88	109	75
2 Chvi	020	2	25	36	25	29	23	24
3 Amut	032	2	20	7	8	4	6	6
4 Pimo	002	2	70	8	7	2	0	1
5 Teca	001	2	10	2	2	3	6	6
6 Oppo	037	2	15	0	1	2	0	1
7 Tetr	031	2	20	0	0	3	0	2
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	4.75	5.12								
Artr	10.67	10.70	11.78	11.89	15.20	15.31	17.79	17.95	18.65	19.17
	0.44	0.89	5.48	5.58	7.63	7.71	12.76	12.83	13.02	13.09
	19.22	19.27	3.47	3.58	3.71	3.82	5.90	6.10	9.94	10.03
	10.45	10.61	10.77	11.02	11.60	11.76	13.84	14.21	14.59	14.76
	19.75	19.80	0.52	0.76	1.48	1.63	2.45	2.71	3.19	3.21
	4.21	4.24	4.76	5.16	5.52	5.66	6.07	6.14	7.60	7.82
	8.23	8.29	8.44	8.47	8.89	9.13	0.75	3.01	5.63	5.88
	15.37	15.41								
Chvi	14.70	14.72	7.70	7.71	9.84	9.86				
Amut	5.55	5.61	3.54	3.63						
Oppo	0.35	0.38	4.66	4.70						

PROOF PROGRESS REPORT

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Sheet 1 of 2

Orientation (degrees) 120°

Vegetation Type Pinyon-Juniper Transect # 39 Type Non-Permanent

T 25 R 99W S 26 1/4 1/4 S NWNW Transect Length 100 m

Aspect (degrees) 93° Slope (degrees) 3-5° Elevation (feet) 7120

Field Analyst(s) Macgregor/Kestrel Date 7/17/76

Site Description QA Check bmm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 JUOS	001	2	2	1	4	1	1	many small trees
2 PIED	002	2	0	2	1	0	2	medium size trees
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
JUOS	0.13	1.02							[15, 12], 14; [10, 9]; [12, 13], [13, 13], [12, 3], [15, 14, 8]; 15; [10, 15], 15, 7, 13, 6, 14, 13, 5]
PIED	0.30	1.43	2.42	5.35	15.32	16.10	4.66	7.12	12, 11; [12, 11, 10]; 13, [15, 22]
	12.76	15.07							

Aspect (degrees) 93°
Slope (degrees) 3-5°
Elevation (feet) 7120'
Orientation (degrees) 120°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Pinyon Juniper Transect # 39

T 25 R 99W S 26 ¼ ¼ S NW/NW Transect Length 100m

Field Analyst(s) DCK, RDM Date 7/17/74 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	45	47	40	34	28	20
2 Juos	001	2	60	0	2	1	1	2
3 Amut	032	2	10	5	3	1	7	2
4 Pred	002	2	150	6	7	4	10	10
5 Putr	024	2	10	2	0	0	5	1
6 Oppo	037	2	10	0	2	1	0	1
7 Chvi	020	2	20	0	1	0	4	17
8 Cemo	017	2	50	0	0	0	1	0
9 Chna	019	2	40	0	0	0	3	0
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Juos	5.56	5.77	16.75	17.13						
Artr	6.83	7.04	13.81	14.02	0.99	1.11	17.01	17.47	19.15	19.27
	0.67	1.25	2.22	2.50	4.48	5.96	2.41	2.43	3.38	3.54
	3.67	3.71	17.12	17.2[illegible]	17.46	17.48	18.08	18.12	18.48	18.54
	3.92	3.98	19.87	20.0[illegible]						
Amut	7.75	8.21								
Putr	1.03	1.95	8.50	8.51						
Juos	1.46	2.50								
Chvi	12.13	12.27	3.09	3.3[illegible]	10.0[illegible]	10.18	12.85	13.10		
Pred	11.16	11.90	2.90	3.27	3.75	4.01	7.17	7.22	11.80	12.79

RBOSP PROGRESS REPORT

186/021176

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Sheet 1 of 2

Orientation (degrees) 257°

Vegetation Type Pinyon-Juniper Transect # 40 Type Non-perm

T 25 R 99W S 33 1/4 1/4 S SWNE Transect Length 100 m

Aspect (degrees) 180° Slope (degrees) 15-20° Elevation (feet) 7420

Field Analyst(s) Macgregor/Kestrel Date 7/17/76

Site Description on edge of cliffs! QA Check Lum 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 PIED	002	2, 7	3	3	3	2	1	lg trees & sm some pancake gro
2 JUOS	001	2	0	1	0	0	1	
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
PIED	12.32	17.04	8.31	9.95	6.53	9.96	0.45	2.83	13, 25, 19, 27, 17, 12
	5.63	6.27	6.38	7.51	16.47	19.78	6.87	8.93	17, 34, 27, 16, 23, 2
JUOS	15.95	18.06	18.39	18.58					15, [10, 7]

RESSP PROGRESS REPORT

Aspect (degrees) 120
Slope (degrees) 15-20°
Elevation (feet) 7,120'
Orientation (degrees) 252°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Pinyon Juniper

Transect # 40

T 2 S R 99W S 33 ¼¼ S SW/NE

Transect Length 100m

Field Analyst(s) DCK, RDM

Date 7/17/76

QA Check Lucas 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Putr	024	2	25	14	8	14	11	8
2 Pied	002	2	125	4	0	5	3	4
3 Chvi	020	2	40	2	2	7	13	11
4 Ceme	017	2	100	2	8	10	11	11
5 Amut	032	2	40	0	13	12	5	0
6 Artr	014	2	60	0	0	3	4	17
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Putr	4.01	4.07	4.30	4.30	4.61	4.71	5.37	6.63	7.02	7.74
	18.03	18.62	3.09	3.13	3.30	3.49	6.64	7.53	7.74	8.31
	6.83	7.11	15.18	15.85	18.94	19.04	9.05	9.24		
Chvi	8.78	9.11	7.90	7.91	14.68	14.89	18.12	18.40	19.15	19.21
	19.52	19.60	7.30	7.42						
Ceme	11.03	11.32	18.50	19.38	10.58	11.80	12.00	13.74	5.59	6.18
	16.00	16.76	16.84							
Amut	1.55	1.66	1.98	2.01	13.60	13.89	13.94	14.46	8.94	10.05
	15.10	15.52								
Pied	14.14	14.51	4.50	5.64	16.50	16.55				
Artr	9.41	9.48	7.92	10.23	19.58	19.86	5.61	5.66	14.00	14.21
	15.31	15.83								

RBCSP PROGRESS REPORT

Aspect (degrees) 104
Slope (degrees) 17°
Elevation (feet) 6900
Orientation (degrees) 252°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.6

Project 83

Sheet 1 of 2

Vegetation Type PINYON - JUNIPER

Transect # 41

T 2S R 99W S 21 ¼ ¼ S SE & NE Transect Length 100 m

Field Analyst(s) Kestrel / Sanz Date 19 July, 1976 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	30	21	9	2	38	91
2 Pied	002	2	70	4	7	2	1	1
3 Juos	001	2	70	0	3	1	2	2
4 Oppo	037	2	15	6	11	0	1	0
5 Teca	031	2	35	1	0	1	0	0
6 Chna	019	2	50	1	0	0	2	0
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	3.61	3.81	6.59	7.05	13.00	13.06	18.88	19.64	13.13	13.42
	18.16	18.83	0.44	0.79	3.04	3.13	4.76	5.37	7.86	7.97
	15.68	16.29	18.59	18.72	19.92	20.00				
Pied	1.08	2.46	1.40	1.43						
Oppo	0.40	0.42	5.62	5.67	5.80	6.02	14.58	14.62	14.84	15.03
Juos	8.43	9.98	10.31	10.89	15.03	15.54	12.64	13.91		
Teca	1.56	1.75								
Chna	13.00	13.03								

RBOSP PROGRESS REPORT

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Orientation (degrees) 282° Sheet 2 of 2

Vegetation Type Pinyon - Juniper Transect # 41 Type Non permanent

T 25 R 99 W S 21 1/4 1/4 S SE & NE Transect Length 100 m

Aspect (degrees) 102° Slope (degrees) 17° Elevation (feet) 6900'

Field Analyst(s) Kestrel / Sanz Date 19 July, 1976

Site Description South Slope P.J. Mature stand QA Check Sanz 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied	002	2	3	2	2	0	0	normal
2 Juos	001	2	6	1	1	2	1	normal
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	9.13	11.10	14.38	14.95	15.36	7.18	8.63	9.48	Q_1 - 42, 14, 15,
									Q_2 - 11, 14,
									Q_3 - 16, 51
									Q_4 - 0
									Q_5 - 0
Juos	2.81	5.09	6.42	9.89	15.76	19.93	15.19	15.63	Q_1 - (14, 12)(16, 18)
	3.38	3.52	3.90	7.06					76, 12, 13, 15
									Q_2 (20, 12, 10)
									Q_3 - 50
									Q_4 (21, 35, 20)
									62
									Q_5 (35, 30)

BOOSP PROGRESS REPORT

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83
Sheet 1 of 2

Orientation (degrees) 264
Vegetation Type Pinyon Juniper Transect # 42 Type non perm
T 25 R 99W S 5 1/4 1/4 S NE/NE Transect Length 100 m
Aspect (degrees) 144° Slope (degrees) 21 Elevation (feet) 7100'
Field Analyst(s) Sam, Kestrel Date 7/19/76
Site Description south slope mature PJ QA Check Sam 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied	002	2	1	0	1	0	1	normal
2 Juos	001	2	0	3	1	0	3	normal
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	13.95	15.61	17.10	20.00	8.04	14.83			Q_1-8 Q_2-0 Q_3-39 Q_4-0 Q_5-50
Juos	0.79	5.50	8.85	12.92	0.52	3.03	3.13	3.31	Q_1-0 Q_2(35,35,37),(22,16),16, Q_3-72 Q_4-0 Q_5-(29,66),33,(22,68)

FIELD RECONNAISSANCE REPORT

Aspect (degrees) 144°
Slope (degrees) 21°
Elevation (feet) 7100'
Orientation (degrees) 264°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type PINYON - JUNIPER Transect # 42

T 25 R 99W S 5 ¼ ¼ S NE/NE Transect Length 100 m

Field Analyst(s) KESTREL / SANZ Date 19 JULY, 1976 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	70	11	14	3	11	0
2 Atco	016	2	31	19	5	0	1	5
3 Chna	019	2	52	9	4	6	13	1
4 Chvi	020	3	35	41	22	1	31	1
5 Syor	033	2	40	13	9	1	0	7
6 Pied	002	2	25	2	3	2	1	0
7 Juos	001	2	120	2	0	2	1	0
8 Amal	034	2	65	9	7	24	19	2
9 Cemo	017	2	85	0	0	15	21	8
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amal	2.30	2.54	1.92	2.13	3.11	3.27	12.45	12.54	8.33	8.40
	8.68	8.89	9.12	10.53	13.91	14.08	14.58	14.62	16.80	17.00
	17.13	17.29								
Syor	15.41	16.00	17.10	17.38	17.54	17.94	2.30	2.52	2.72	3.18
	13.85	13.88	14.43	14.49	0.94	1.38	7.00	7.31		
Artr	2.37	2.74	3.46	3.97	4.12	4.25	4.38	4.89	5.15	5.36
	19.22	19.46	1.53	1.81	0.91	1.65	16.95	17.07	17.80	17.96
Cemo	12.70	13.32	13.61	14.64	16.51	16.52	17.61	17.66	10.45	11.60
	13.29	13.80								
Chna	3.90	3.97	5.40	5.86	9.11	9.48	10.24	10.26	13.10	13.40
	14.08	14.13	1.65	1.61						
Juos	16.32	16.92	18.53	19.06	12.89	12.98				
Chvi	7.52	17.92	1.48	1.55	2.60	2.63	5.14	5.17	12.78	12.97
	13.65	13.70	13.76	13.80	13.75	18.82				

RE[illegible] PROGRESS REPORT

C.2.2.5

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Orientation (degrees) 332 — 13 — Sheet 1 of 3

Vegetation Type Pinyon Juniper — Transect # 13 — Type non-perm

T 15 R 99W S 2017 1/4 1/4 S ~~NE~~/NW ~~SE~~ — Transect Length 100 m

Aspect (degrees) 119° — Slope (degrees) 18° — Elevation (feet) 7000

Field Analyst(s) DCK, Sanz — Date 7/19/76

Site Description south slope PJ - mature w/ little ~~yoth~~ rejuvination — QA Check Lusm 8-3-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied	002	2	2	0	1	0	1	normal
2								
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	6.82	12.03	14.18	20.00	26.00	1.02	12.63	15.80	Q_1 - 29, 43 Q_2 - 0 Q_3 - 9.1 Q_4 - 0 Q_5 68

RBOOP PROGRESS REPORT

Aspect (degrees) 119°
Slope (degrees) 18°
Elevation (feet) 7000'
Orientation (degrees) 332

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type PINYON JUNIPER

Transect # ~~27~~ 43

T 1S R 99W S ~~20~~ 17 ¼ ¼ S NE/SE

Transect Length 100 m

Field Analyst(s) Sanz, DCK

Date 7/19/76

QA Check bum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Amal	034	2	77	13	7	23	16	3
2 Cemo	017	2	95	27	13	27	9	12
3 Atco	016	2	28	3	0	1	0	0
4 ~~Tras~~		~~2~~	—	~~0~~	~~0~~	0	0	0
5 Cana	019	2	24	2	2	3	15	1
6 Ebvi	021	2	36	1	0	1	1	3
7 Pied	002	2	73.5	0	2	1	1	2
8 Syor	033	2	12	0	0	2	0	0
9 Cema	039	2	5	0	0	0	0	55
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amal	1.24	1.95	12.96	13.78	14.08	14.17	15.03	15.34	15.83	16.09
	8.26	8.74	13.03	13.05	13.15	13.18	13.21	13.22	17.35	17.56
	0.50	0.64	0.76	0.94	1.26	2.63	10.01	10.21	11.82	12.65
	12.81	13.12								
Cema	6.95	7.23	12.93	13.07	13.40	13.47				
Cemo	17.63	17.86	10.21	10.90						
Syor	11.11	11.58	1							
Cana	11.62	11.75	11.90	11.97	12.23	12.27	13.03	13.27	13.51	13.59
	13.96	13.99	14.82	15.21						

BRIEF PROGRESS REPORT

Aspect (degrees) 330
Slope (degrees) 0-4°
Elevation (feet) 6780'
Orientation (degrees) 348°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.8
Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # 34

T 25 R 99W S 13 ¼ ¼ S SW/SW Transect Length 100 m

Field Analyst(s) DCK, RDM Date 7/18/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	150	3,50	94	142	13	55
2 Tri.	001	2	100	1	0	0	0	3
3 Chna	019	2	40	14	0	0	0	3
4 Chvi	020	2	30	7	0	0	0	0
5 Sp.	022	2	20	7	0	0	0	5
6 Hco	016	2	20	0	0	0	0	11
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	0.23	0.46	1.54	2.21	2.44	3.02	3.22	3.75	3.86	5.57
	5.71	5.92	6.54	6.69	6.87	6.95	7.14	7.18	7.61	8.32
	11.78	12.57	14.3	14.67	14.69	14.88	15.77	16.08	16.48	17.04
	18.16	19.32	19.49	20.00	0.49	0.70	1.65	2.10	2.26	2.41
	2.43	3.98	5.65	5.94	6.49	7.31	7.79	8.09	8.67	8.91
	11.54	12.04	12.38	12.61	13.21	15.28	19.77	19.82	0.00	0.15
	7.43	7.50	9.52	9.63	11.33	11.72	11.83	12.14	12.41	12.69
	12.83	13.68	13.99	14.55	14.84	16.55	18.19	19.02	19.21	19.94
	0.63	1.31	2.09	2.65	3.43	3.62	3.76	3.81	4.15	4.99
	5.32	5.57	5.94	6.52	7.89	8.20	8.77	10.88	12.10	13.11
	13.33	13.36	14.01	14.33	14.57	14.92	15.15	16.06	16.38	16.58
	17.27	17.36	15.03	15.06	15.32	15.50	18.57	15.64	18.87	18.96
	19.52	20.00	0.00	0.92	1.52	2.04	2.59	3.02	8.05	9.27
	10.38	11.17	13.87	17.01	18.14	19.49				
Hco	19.55	19.65								
Chna	5.11	5.40								
Juos	3.53	3.65								

REPORT PROGRESS REPORT

Aspect (degrees) 300°
Slope (degrees) 6
Elevation (feet) 7040'
Orientation (degrees) 30°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.8
Project 83
Sheet 1 of 1

Vegetation Type Sagebrush
Transect # 35
T 2S R 99W S S23 ¼¼ S SE/NW Transect Length 100 m
Field Analyst(s) RDM, DCK Date 7/17/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2,3	50	124	85	96	110	78
2 Chvi	020	2	25	157	137	120	20	20
3 Tecc	031	2	15	25	26	3	1	4
4 Sula	022	2	20	5	15	0	0	0
5 Pied	002	2	30	1	2	0	1	9
6 Juos	001	2	15	0	1	1	2	3
7 Amut	032	2	8	0	0	1	0	1
8 Opp	037	2	15	0	0	0	0	2
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Artr	0.40	1.52	3.83	4.22	[illegible]	4.50	4.90	5.12	5.17	6.40	
	6.43	6.50	6.91	6.93	[illegible]	7.27	7.94	8.13	8.46	9.05	
	9.21	9.43	9.54	9.55	10.94	11.53	12.83	12.88	13.06	13.36	
	17.70	18.04	18.70	19.45	19.70	19.95	0.21	0.28	1.45	1.53	
	3.27	3.70	3.79	3.92	8.10	8.43	8.61	8.70	8.80	9.81	
	13.78	13.84	3.96	4.05	6.30	6.51	7.39	7.40	8.22	8.25	
	9.70	10.61	10.93	11.43	12.35	12.89	13.62	13.91	14.14	14.28	
	14.73	14.84	15.55	15.59	15.70	15.86	16.23	16.34	17.29	18.02	
	19.10	19.38	19.95	20.00	0.14	0.21	0.96	1.00	3.22	3.65	
	5.88	6.19	8.71	9.19	11.14	11.33	12.23	12.25	15.25	15.55	
	1.03	1.68	3.70	3.71	11.41	11.62	12.84	13.00	19.95	20.00	
Chna	18.86	19.16									
Chvi	2.40	2.56	2.73	2.93	3.15	3.19	4.49	4.50	19.71	19.73	2.82 23
	2.23	2.26	3.02	3.14	10.30	10.32	13.95	14.02	0.00	0.15	
	4.30	4.31	7.63	7.68	7.93	8.00	11.13	11.15	14.80	14.81	
	16.35	16.68	15.72	15.74	0.21	0.25	0.70	0.74	1.41	1.43	
Tecc	14.05	14.21	15.50	15.56	15.87	15.99					
Juos	12.76	13.20									
Sula	2.77	2.83									
Pied	7.76	7.82									

186/021176

PROOF PROGRESS REPORT

C.2.2.8

Aspect (degrees) 345°
Slope (degrees) 5°
Elevation (feet) 7250'
Orientation (degrees) 256°

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush — Transect # 36

T 2S R 99W S 33 ¼ ¼ S (W) / NE — Transect Length 100 m

Field Analyst(s) DCK, RDM — Date 7/17/76 — QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2,7	40	103	115	118	109	103
2 Chvi	020	2	20	16	15	9	5	9
3 Amut	032	2	30	1	4	3	4	4
4 Opeo	037	2	10	3	0	0	3	
5 Chna	019	2	10	0	0	1	0	
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
1 Artr	0.51	0.60	0.78	1.15	1.26	1.56	3.63	4.06	5.06	5.11
	6.18	7.09	10.11	10.69	10.95	10.97	11.38	12.02	13.46	13.77
	15.90	16.18	16.59	17.02	17.42	18.03	19.22	19.49	19.96	20.00
	0.00	1.07	1.72	1.74	2.04	2.06	2.31	3.20	3.60	4.14
	5.30	6.02	6.63	6.80	7.17	7.20	7.32	7.63	7.97	8.76
	9.31	9.47	10.66	11.55	11.90	12.09	12.70	14.68	14.82	15.58
	15.66	17.20	17.29	17.52	17.71	17.82	18.55	19.18	19.57	19.79
	0.53	1.33	1.31	1.38	2.09	2.15	5.27	6.70	7.34	7.48
	7.80	8.05	8.16	9.96	11.90	12.20	12.78	13.17	13.56	13.64
	18.84	18.92	0.21	0.40	0.76	1.65	2.42	2.77	5.44	6.05
	6.22	6.71	6.88	7.72	11.11	11.23	11.68	11.96	12.06	12.69
	13.58	13.60	14.04	14.15	15.65	16.10	16.66	16.72	17.28	17.34
	18.32	18.52	18.71	18.89	19.16	19.35	19.47	19.55	19.63	20.00
	0.00	0.25	0.37	1.08	2.31	2.54	2.68	2.92	4.40	4.93
	5.41	5.96	8.21	8.34	7.05	7.06	11.23	11.84	13.29	14.27
	17.74	18.12	18.79	18.84	19.83	20.00				
2										
Amut	4.35	4.61								
Chvi	2.53	2.56								

RBOSP PROGRESS REPORT

Aspect (degrees) 140
Slope (degrees) 4
Elevation (feet) 6[illegible]0'
Orientation (degrees) 74

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.8
Project S3

Sheet 1 of 2

Vegetation Type Sagebrush — Transect # 37

T 15 R 99W S 19 ¼ ¼ S SE/NE — Transect Length 100 m

Field Analyst(s) RCS, DCK — Date 7/15/76 — QA Check [illegible] 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 ARTR	014	2	135	127	222	142	174	131
2 CHNA	019	2	87	71	78	107	99	115
3 SYOR	033	2	27	1	0	0	0	0
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

note: decimal 2 places to right.

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
ARTR	.05	.32	.55	372	434	595	960	982	1502	1553
	1632	1661	1690	1703	1870	1905	1939	1991	124	164
	301	472	544	596	605	694	964	1001	1022	1174
	1202	1272	1329	1441	1519	1559	1591	1815	1851	1953
	1985	2000	0	50	92	103	251	263	366	421
	893	968	1028	1060	1124	1181	1218	1304	1355	1372
	1536	1566	1579	1587	1656	1668	1672	1681	1743	1803
	1865	1923	1925	1944	1961	1968	1982	2000	0	70
	94	635	800	822	851	966	985	1082	1128	1161
	1189	1265	1297	1960	1504	1526	1601	1795	1821	1877
	1914	1947	0	5	89	151	212	243	402	461
CHNA	1532	1575	1552	1578	1606	1638	1804	1822	655	686
	822	851	1960	1985	1795	1814	1947	2000	15	36
	341	376	620	700	744	796	870	906	900	938
CHNA	37	44	422	434	595	960	1035	1152	1191	1218
	1250	1314	1456	1977	1553	1632	1661	1690	1703	1717
	1751	1763	1841	1865	1905	1939	61	124	164	280
	770	825	1963	1985	129	132	180	196	263	270
	410	451	556	575	591	682	767	816	851	896
	968	1024	1071	1104	1191	1218	1390	1463	1490	1518

RBOSP PROGRESS REPORT

Aspect (degrees) 190
Slope (degrees) 7
Elevation (feet) 6980
Orientation (degrees) 74

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Sagebrush Transect # 37

T 7S R 99W S 19 ¼ ¼ S SE/NE Transect Length 100 m

Field Analyst(s) Kestrel / Sam Date 18 July, 1976 QA Check brm 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

data on page 1

Intercepts (m) note: decimal 2 places to left.

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
ARTR	572	620	842	865	901	909	984	1013	1127	1138
	1156	1228	1239	1256	1289	1322	1568	1713	1787	1830
	1904	1961								
CHNA	1005	1052	1086	1131	1371	1374	1412	1431	1442	1531
	1702	1726	1738	1769	1970	1991				

RBCCP PROGRESS REPORT

Aspect (degrees) 240
Slope (degrees) 6°
Elevation (feet) 6600'
Orientation (degrees) 078°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.8
Project 83
Sheet 1 of 1

Vegetation Type Sagebrush Transect # R 38

T 15 R 99W S 24 ¼¼ S NW/NW Transect Length 100 m

Field Analyst(s) RCS, DCK Date 7/18/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr	014	2	60	48	32	24	72	52
2 Eula	022	2	12	27	0	1	4	1
3 Opdo	037	2	15	6	4	0	3	13
4 Chvi	080	2	25	74	26	55	88	63
5 Chna	019	2	55	19	12	1	0	7
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Eula	4.34	4.38	7.65	7.74						
Chna	16.76	16.82								
Chvi	7.92	8.00	0.90	0.92	6.00	6.18	7.96	8.15	11.34	11.40
	13.95	13.96	3.08	3.17	4.05	4.18	4.44	4.75	13.51	13.60
	15.92	16.05	19.27	19.32	0.31	0.33	0.79	0.85	2.50	2.54
Artr	0.95	14.19	15.31	15.48	18.48	19.11	19.29	19.86	4.05	4.26
	11.19	11.29	13.54	13.64	13.93	14.02	15.30	16.61	3.99	4.46
	12.40	12.64	19.53	19.63	0.86	0.93	1.05	1.11	6.74	6.79
	7.78	8.81	9.35	9.41	9.83	10.06	11.29	11.41	11.59	12.09
	12.74	12.84	2.59	3.17	11.41	4.52	7.34	7.43	8.10	8.59
	10.47	10.58	10.75	10.90	17.85	18.28	18.50	18.54		
Chvi	13.58	13.62	13.17	13.63	15.40	15.97				

RDOSP PROGRESS REPORT

186/021176

Aspect (degrees) 120
Slope (degrees) 2°
Elevation (feet) 6500'
Orientation (degrees) 252

C.2.2.8

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush Transect # 39

T 15 R 98W S 19 ¼ ¼ S SW/SW Transect Length 100m

Field Analyst(s) DCK, RCS Date 7/18/76 QA Check Sum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 ARTR	014	2	40	139	95	137	147	110
2 OPPO	037	2	9	10	7	3	8	3
3 SAVE	029	2	43	3	0	0	0	0
4 CHVI	020	2	22	3	16	22	42	52
5 EULA	022	2	11	26	7	21	5	0
6								
7								
8								
9								
10								

Intercepts (m) . note: decimal 2 places to the left.

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
ARTR	0	10	77	85	150	169	351	352	359	370
	395	418	440	452	466	490	553	600	770	800
	859	899	1057	1078	1252	1325	1364	1377	1615	1655
	1689	1700	1945	1965	45	48	173	210	297	302
	501	541	679	725	742	758	800	875	984	986
	1142	1195	1310	1330	1384	1385	1452	1470	1540	1560
	1740	1810	1830	1862	1880	1895	22	40	110	150
	435	455	555	562	574	645	660	674	710	725
	882	944	1010	1014	1292	1313	1400	1422	1514	1550
	1910	1938	81	95	139	175	223	234	255	275
	290	297	338	313	447	472	495	501	595	636
	725	732	765	810	834	839	1051	1090	1628	1646
	1743	1797	1895	1934	1980	1993	13	21	409	491
CHVI	1785	1790	1679	685	1819	1825	2055	2075	50	71
	1993	2000	0	13	520	536	1952	1965		
EULA	1700	1710	1727	1748	789	794	1266	1273		
ARTR	580	599	650	676	713	795	776	85	860	877
	932	982	1165	1200	1231	1273	1304	1390	1495	1512
OPPO	1015	1022	1541	1548	1345	1349	950	956	1090	1104
ARTR	1600	1659	1819	1850	1912	1935				

186/021176

RBCIP PROGRESS REPORT

Aspect (degrees) 10°
Slope (degrees) 0-5°
Elevation (feet) 3670'
Orientation (degrees) 95°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.28
Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # 40

T 25 R 99W S 32 ¼¼ S SW/SE Transect Length 100m

Field Analyst(s) DCK, RDM Date 7/17/76 QA Check Lmw 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Chvi	020	3	30	121	68	83	53	97
2 Artr	014	2	50	91	82	82	89	7
3 Spar	033	2	30	13	16	18	11	28
4 Amut	032	2	25	11	17	18	9	15
5 Pica	002	2	30	0	0	1	0	1
6 Puta	024	2	30	0	0	1	0	1
7 Eula	022	2	20	0	1	0	0	0
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Chvi	0.41	0.69	2.36	2.90	6.53	7.02	18.18	8.33	9.24	9.64
	10.34	10.38	11.63	11.74	12.74	12.89	13.25	13.54	13.97	14.08
	14.29	14.55	15.09	15.21	15.33	15.42	15.70	15.96	9.40	9.57
	11.93	12.04	13.59	13.71	.236	3.48	2.91	3.31	8.92	8.99
	16.80	16.91	4.61	4.73	5.21	5.32	6.16	6.30	6.83	7.40
	7.44	7.52	19.21	19.32						
Spar	1.86	1.94	6.02	6.71	6.73	1.30	19.78	20.0	0.00	1.10
	2.30	3.52	18.45	18.70						
	12.76	12.91	18.60	18.85	19.11	19.18	2.00	2.58		
	5.13	5.16	6.10	6.40	10.03	10.08	11.43	11.52	12.36	12.41
	19.96	20.00	0.00	0.56	1.47	1.50	2.50	4.24	4.54	4.74
Artr	3.10	3.59	4.09	4.32	4.66	4.74	4.96	5.19	5.30	5.54
	6.39	7.64	11.32	11.42	13.62	14.02	17.04	17.67	19.54	19.75
	0.35	0.91	2.36	2.54	3.43	4.41	3.04	5.71	6.50	6.74
	10.35	11.54	13.84	14.43	14.58	15.00	17.21	17.54	18.30	18.68
	18.78	19.43	0.82	1.62	4.35	5.23	5.16	5.62	6.55	6.56
	10.22	10.39	12.23	12.32	12.48	13.56	12.76	12.77	4.48	4.58
Amut	19.02	19.21	5.89	6.23	8.53	8.84	7.93	10.03	0.39	1.18
Sylo	3.23	3.33								
Artr	7.06	7.19	9.12	9.30	9.20	10.45	12.97	13.58	19.50	19.75

186/021176

PROSP PROGRESS REPORT

Aspect (degrees) 340
Slope (degrees) 14
Elevation (feet) 8400
Orientation (degrees) 288

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.8
Project RBOSP-83
Sheet 1 of 2

Vegetation Type Upland Sagebrush Transect # 41

T 25 R 100W S 21 ¼ ¼ S NENE Transect Length 100 m

Field Analyst(s) Ellis/Macgregor - BRm Date 7/19/76 QA Check bm 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 SYOR	033	2	40	26	26	35	42	28
2 ARTR	014	3	50	66	94	52	73	29
3 CHVI	020	3,4	30	56	67	95	87	62
4 AMUT	032	2	70	9	13	9	13	13
5 TECA	031	2,3,4	30		1	2	1	15
6 PIED	002	2	50				1	
7 EULA	022	2,3	15					4
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
SYOR	0.36	0.45	4.18	4.22	7.75	7.92	7.97	8.0	3.45	3.49
	17.75	17.83	14.80	14.88	16.09	16.33	16.42	16.60	1.25	1.49
	1.70	1.78	1.95	2.09	6.21	6.27	7.6	11.89	11.30	13.65
	0.29	0.53	2.05	2.65	8.81	8.87	4.98	5.07	5.68	5.72
	6.22	6.41	7.39	7.62	13.58	13.62	14.55	14.60	16.09	16.32
	17.65	17.76	19.96	20.0	0.13	0.31	1.73	2.14	2.17	2.29
	2.61	2.67	2.94	3.09	7.46	7.75	9.19	9.09	11.11	11.32
	14.05	14.06								
ARTR	1.59	1.84	2.03	2.10	2.32	2.73	7.98	8.42	8.73	9.05
	11.16	12.41	13.29	13.64	14.37	14.42	15.29	15.30	18.12	18.25
	19.93	19.5	0.95	1.01	1.49	1.75	3.39	3.58	3.79	3.80
	3.87	3.91	5.60	6.23	6.40	6.98	10.29	10.61	11.28	11.47
	11.70	11.74	12.0	12.26	18.60	19.30	19.94	20.0	0.0	0.41
	0.53	0.60	0.74	0.91	1.13	1.24	3.41	3.63	4.75	4.9
	9.29	9.52	9.40	9.59	12.02	12.09	13.35	15.14	15.50	16.25
	16.49	16.74	17.18	17.90	1.53	2.07	2.25	2.70	3.04	3.19
	6.65	6.85	7.0	7.28	7.85	8.24	8.65	8.85	10.20	10.30
	12.50	12.61	13.20	12.39	14.78	15.29	15.60	16.22	16.90	17.68

PROGRESS REPORT

186/021176

LINE STRIP DATA SHEET
SHRUB, TREE SEEDLING STRATUM

Project 07
Sheet 2 of 2

Vegetation Type Upland Sage Non-Permanent Transect # 41 Date 7/19/76
bum 8-3-76

Species	Intercepts (cm) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
CHVI	1.96	2.37	3.84	3.92	6.30	7.12	11.20	11.62	17.69	17.73
	13.69	14.75	1.23	1.28	2.08	2.25	2.60	3.09	3.60	3.74
	0.70	0.72	1.38	1.55	5.8	6.1	7.28	7.32	15.30	15.41
	5.72	15.82	16.3	16.65	19.59	19.71	19.0	19.05	0.58	0.72
	0.99	1.19	1.49	1.52	3.43	3.56	4.14	4.18	4.41	4.45
ATNUT	3.58	3.76	9.35	9.97	13.70	13.93	15.28	17.1	1.82	2.09
	4.07	4.12	13.41	15.22	2.01	2.08	3.18	3.20	3.29	3.34
	14.20	14.6	7.59	10.13	10.18	10.24	10.24	10.30	11.43	11.45
	17.70	18.96								
TECA	11.12	11.39	5.95	6.17	16.30	16.66				
CHVI	12.76	13.01	15.40	15.53	3.08	3.31	4.65	4.83	7.43	7.61
	8.71	8.78	11.29	11.50	12.33	12.37	15.60	15.80	16.30	16.39
	16.90	17.03	17.17	17.27	19.91	19.97				
ARTR	0.0	0.44	1.97	2.03	2.31	2.72	7.04	7.21	9.10	9.12
	9.25	9.58	10.13	10.33	14.92	15.13	15.20	15.23	15.54	15.55

PROGRESS REPORT

Aspect (degrees) 340
Slope (degrees) 6°
Elevation (feet) 7520
Orientation (degrees) 15°

C.2.2.10

LINE-STRIP DATA SHEET

SHRUB STRATUM

Project 83

Sheet 1 of 1

Vegetation Type Upland Meadow Transect # 15

T 15 R 100W S 14 ¼ ¼ S NW/NE Transect Length 100m

Field Analyst(s) RDM, DCK Date 7/16/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Tetradymia canescens	031	2	5	1	8	2	14'	15'
2 Artemisia frigida	013	2,3	10	1	4	6"	3'	36"
3 Artemisia tridentata	014	2,3	10	0	0	0	0	2
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Tetfr	2.56	2.63	2.95	2.99						
4										

PROGRESS REPORT

Aspect (degrees) 270
Slope (degrees) 4
Elevation (feet) 8350
Orientation (degrees) 18°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.10 Project 83

Sheet 1 of 1

Vegetation Type Upland Meadow — Transect # 16

T 15 R 100W S 16 ¼ ¼ S NE/SW — Transect Length 100 m

Field Analyst(s) RDM, DCK — Date 7/16/76 — QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Teca (angustifolia)	031	2	10	26	21	86	66	42
2 Artr	014	2	20	3	0	1	43	89
3 Artr	013	2	25	0	1	1	1	4
4 Chvi	020	2,4	20	1	12	21	23	59
5 Syoi	033	2	10	0	0	0	1	15
6 Amut	032	2	10	0	0	0	0	5
7 Como	017	2	7	0	0	0	0	1
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Teca	4.98	5.00	7.53	7.56	7.34	9.41	18.75	18.86	6.38	6.63
	7.05	7.28	14.02	14.08	17.37	17.42	9.05	9.36	18.95	19.06
Artr	11.79	11.84	6.45	6.44	7.06	7.10	8.58	8.70	10.06	10.16
	17.10	17.18	19.07	19.19						
Chvi	12.21	12.27	13.35	13.42						

FIDOEP PROGRESS REPORT

186/021176

Aspect (degrees) 212°
Slope (degrees) 7°
Elevation (feet) 5760'
Orientation (degrees) 53°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.2.10
Project 83

Sheet 1 of 1

Vegetation Type Upland Meadow Transect # 17

T 1S R 100W S 21 ¼ ¼ S NW/NE Transect Length 100M

Field Analyst(s) RDM, DCK Date 7/16/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Teca	031			22	32	35	37	35
2 Eula	022			38	57	41	57	90
3 ChVi	020			31	32	17	30	24
4 Artr	014			9	12	5	4	2
5 Arfr	013			5	20	17	20	65
6 Syor	033			3	1	0	10	0
7								
8 note: hab	lat was too small -			fifth 20 meters				
9		was run 11		to transect of Sec-				
10		approx	40'	to last				

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Teca	2.54	2.55	7.68	7.85	19.70	20.00	7.68	7.79	8.04	8.14
	17.43	17.46								
ChVi	0.70	0.73	10.30	10.42	18.54	19.09	11.73	11.88	11.93	12.30
	12.55	12.58	12.63	12.73						
Eula	8.09	8.19	13.80	13.88	1.28	1.42	10.33	10.44	14.51	14.74
	1.66	1.74	10.10	10.23	11.95	11.96	13.60	13.64	16.45	16.47
Arfr	12.25	12.29	11.93	15.16	19.59	18.79	4.39	4.40	9.10	9.11
	2.58	2.59	4.02	4.40	9.38	9.48	7.25	7.26	12.88	13.04
	17.86	17.98								
Artr	9.60	9.73								

ARS-NP PROGRESS REPORT

Aspect (degrees) 54°
Slope (degrees) 1-3°
Elevation (feet) [illegible]
Orientation (degrees) 232°

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.27
Project 83

Sheet 1 of 1

Vegetation Type Riparian Transect # 12

T 25 R 99W S 6 ¼ ¼ S SW/SE Transect Length 100 m

Field Analyst(s) Sanz, Kestrel Date 7/19/76 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 ROWD	041	2	45	47	0	0	0	20
2 ARTR	014	2,3	114	11	25	39	47	35
3 RIAV	040	2	200	10	0	0	0	31
4 CHNA	019	2	37	10	4	26	7	22
5 SYOR	033	2	22	22	22	81	0	45
6 CHVI	020	2	29	4	0	0	0	0
7 AMAL	034	2	130	0	1	0	0	0
8 SAVE	029	2	21	0	0	0	0	1
9								
10								

Intercepts (m)

Note: decimal point 2 places to left.

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
RIAV	0	67	161	163	1055	1162	1968	1581	0	22
	119	131	596	793	1710	2000				
ARTR	355	395	444	466	497	530	631	721	753	763
	1090	1238	1651	1692	1752	1848	1834	1851	1829	1861
	1876	1940	1994	2000	0	140	1395	1484	1503	1564
	1708	1724	701	735	910	939	1128	1191	1310	1404
	1679	1698	1025	1742	1635	1650	1700	1761	1875	1941
	40	120	216	281	420	420	596	641	744	987
ROWD	530	565	691	721	725	753	850	892	970	972
	1610	1662								
CHNA	1542	1560	1710	1722	1783	1806	1821	1829	1484	1503
	939	1010	1038	1120	1191	1250	1404	1453	22	80
	145	180								
SYOR	1994	2000	0	50	514	701	852	870	1253	1271
	1775	1865	1555	1610	1662	1670				
ARTR	1120	1300								

RDOCP PROGRESS REPORT

186/021176 * Transect divided into one 80m and one 20 m segment due to lack of

Aspect (degrees) 146°
Slope (degrees) 2-4°
Elevation (feet) 7200
Orientation (degrees) 310

LINE-STRIP DATA SHEET

SHRUB STRATUM

C.2.27
Project 83
Sheet 1 of 1

Vegetation Type Riparian Transect # 13

T 15 R 100W S 25 ¼ ¼ S NE NE Transect Length 100 m

Field Analyst(s) Kestrel / Sanz Date 19 July, 1976 QA Check Lum 8-3-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 RIAU	040	2		10	9	6	2	2
2 ARTR	014	2		18	16	7	2	2
3 CHNA	019	2		13	15	9	5	1
4 ROWO	041	2		71	21	38	1	76
5 AMAL	034	2,4,6		1	5	2	122	2
6 SYOR	033	2,3		23	63	51	1	51
7 RIIN	044	2		0	3	0	0	1
8 RHTR (new species)		2		0	0	2	0	0
9 PRVI	023	2,3		0	0	9	0	1
10 SAIN (wide)	045	2		0	0	6	0	8
SAEX (narrow)	030	2		0	0	0	0	9
SAVE	029	2		0	0	0	0	2

Intercepts (m) note: decimal 2 places to left

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
ARTR	0	31	1661	1689	1740	1776	1782	1822	1844	1890
	429	461	1218	1270	1307	1319	1372	1403	1815	1879
	743	860	919	958						
SAEX (narrow)	1131	1153	1422	1481	1602	1642	1885	1928		
SAIN (wide)	781	1104	1545	1581	1613	1684	1749	2000		
RIIN (current)	1280	1293								
AMAL	923	1013								
SYOR	1956	1995	202	241	255	268	310	415	548	558
	601	609	732	765	1270	1291	492	531	1013	114
	1220	1455	1510	1550	1661	2000	0	61		
CHNA	1271	1284	1689	1713	1822	1844	1941	1959	268	310
	415	429	441	464	770	860	1631	1845	600	628
	910	919	1900	2000	241	255				
ROWO	1148	1153	1100	1201	1445	1458	1531	1536	1713	1738
	1774	1782	1954	1963	957	910	940	947	1691	1708
	1751	1759								
RIAU (B)	31	44	77	479	543	566	230	268		
PRVI	1444	1950								

RECSP PROGRESS REPORT

2.3.2 Grazing Exclosure

2.3.2.3 Results

Grazing exclosure sampling was conducted during August 11-18, 1976. Grass-forb stratum data collected during this period are presently being analyzed. Photoplot photographs are being printed for analysis.

Circular shrub plot data are summarized in Table 2.3-23 for the four grazing exclosure study compartments (including the external "control" compartment). Sagebrush (Artemisia tridentata) was the dominant shrub species in three of the four compartments representing 100%, 62%, and 40% of the shrubs in compartments A, B, and C, respectively. Green rabbitbrush (Chrysothamnus viscidiflorus) and bitterbrush (Purshia tridentata) comprised an additional 43% of the shrubs in compartment C and bitterbrush and sagebrush comprised 45% and 43%, respectively, of the shrubs in compartment D (the control).

The mature tree stratum data are summarized in Table 2.3-24 . Upper canopy cover was 34% and 18% of the line in compartment A for pinyon pine (Pinus edulis) and juniper (Juniperus osteosperma), respectively, while lower canopy cover in that compartment was only 6% and 10% for the same two species. Compartment B showed 5% and 1% upper canopy cover along the transect for pinyon and juniper, respectively and 6% and 2% lower canopy cover for the same two tree species. Compartment C showed 5% and 13% upper canopy cover for pinyon and juniper, respectively, and 6% and 5% lower canopy cover for the same two species. Compartment D showed 5% and 1% upper canopy cover along the line for pinyon and juniper, respectively, and 8% lower canopy cover for pinyon.

Grazing exclosure data are intended to be collected and compared over a period of several or many years to reveal long-term trends of production and use. The RBOSP final report will summarize the comparison of the first two years (1975 and 1976) of grazing exclosure data gathering.

Table 2.3-23. Summary of grazing exclosure 0.004 hectare shrub plot data collected August 17, 1976 for RBOSP

Compartment	Species	Mean Maximum Heights(cm)	Mean Crown Diameter(cm)	Mean Percent Alive	Mean Percent Available	No. of Individuals
A	Artemisia tridentata	42	51	67	100	5
B	Artemisia tridentata	31	44	74	100	16
	Chrysothamnus viscidiflorus	41	45	100	100	1
	Juniperus osteosperma	34	30	100	100	2
	Chrysothamnus nauseosus	40	32	67.5	100	6
	Purshia tridentata	34	35	100	100	1
C	Artemisia tridentata	50	55	77	100	19
	Chrysothamnus viscidiflorus	45	33	54	100	11
	Juniperus osteosperma	74	59	100	100	2
	Chrysothamnus nauseosus	43	70	80	100	1
	Purshia tridentata	35	56	98	100	9
	Pinus edulis	43	35	100	100	1
	Amelanchier alnifolia	31	22	93	100	4
D	Artemisia tridentata	48	43	70	100	28
	Juniperus osteosperma	202	130	100	88	2
	Chrysothamnus nauseosus	32	20	40	100	1
	Purshia tridentata	28	42	94	100	29
	Pinus edulis	180	88	100	98	3
	Amelanchier alnifolia	52	50	95	100	1
	Symphoricarpos oreophilus	22	15	100	100	1

Table 2.3-24. Grazing exclosure mature tree stratum line intercept data summary for August, 1976 for RBOSP

Compartment/Canopy	Species [1/]	Total Int. (m)
A - upper	Pied	20.87
	Juos	10.98
A - lower	Pied	3.75
	Juos	6.25
B - upper	Pied	5.85
	Juos	1.29
B - lower	Pied	6.92
	Juos	2.25
C - upper	Pied	7.63
	Juos	19.7
C - lower	Pied	9.74
	Juos	7.94
D - upper	Pied	7.18
	Juos	2.08
D - lower	Pied	12.10

[1/] Pied = Pinus edulis
Juos = Juniperus osteosperma

2.3.2.5 Grazing Exclosure Raw Data

2.3.2.5 Grazing Exclosure Raw Data

Trans 8-18

OCULAR ESTIMATE - CLIPPED PLOTS FOR GRASS-FORBS 83C.3.1.2.3

Project 83 Site Grazing Exclosure (A) Date 15 Aug 76

Observer Koehler & Martin 5A Compartment Page 1 of 1

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
1	1.0		26	5.0	6.0	51			76		
2	0.0		27	0.0		52			77		
3	0.0		28	3.0		53			78		
4	0.0		29	1.0		54			79		
5	0.5	0.5	30	1.5	1.5	55			80		
6	0.0		31	0.5	0.5	56			81		
7	1.5		32	1.5		57			82		
8	0.5		33	0.0		58			83		
9	3.0		34	0.0		59			84		
10	4.0	3.0	35	0.0		60			85		
11	4.5		36	0.0		61			86		
12	3.0		37	2.5	2.0	62			87		
13	1.0		38	2.5		63			88		
14	0.0		39	1.0		64			89		
15	6.0	4.5	40	1.0	1.0	65			90		
16	2.0		41	0.0		66			91		
17	0.0		42	0.0		67			92		
18	0.0		43	2.5		68			93		
19	1.5		44	0.0		69			94		
20	1.0	1.0	45	0.0		70			95		
21	1.0		46	2.5	2.5	71			96		
22	2.5		47	3.5		72			97		
23	0.0		48	0.0		73			98		
24	0.0		49	1.5		74			99		
25	0.0		50	1.0	0.5	75			100		

060175

RBOSP PROGRESS REPORT

ecology consultants, inc.

Item 8-19-83 C.3 1.2.3

OCULAR ESTIMATE - CLIPPED PLOTS FOR GRASS-FORBS

ject 23 Site Grazing Exclosure (B) Date 15 Aug 76

server Koehler & Martin 1.0 Acre compartment Page 1 of 1

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
1	9.0		26	3.0		51	0.5		76	1.5	1.5
2	2.5		27	2.5		52	0.0		77	2.0	
3	14.0		28	1.5		53	0.5		78	0.0	
4	5.5		29	0.0		54	4.0		79	6.0	
5	0.0		30	0.5	0.5	55	5.0	8.0	80	1.5	1.5
6	0.0		31	0.0		56	0.0		81	0.0	
7	2.5 -	3.0	32	0.0		57	2.5		82	2.5	
8	1.0		33	5.0		58	2.0		83	7.5	
9	4.5		34	6.0		59	0.0		84	0.0	
10	9.0	10.5	35	2.0	1.5	60	1.5	2.0	85	0.0	
11	0.0		36	1.0		61	1.0		86	1.0	
12	1.5		37	1.0		62	0.0		87	0.0	
13	2.0		38	0.0		63	4.5		88	0.5	
14	5.5		39	4.0		64	0.5		89	0.0	
15	0.0		40	2.5	2.5	65	0.0		90	0.5	1.0
16	3.0	3.5	41	0.0		66	8.5	9.5	91	7.5	
17	0.0		42	1.0		67	2.0		92	4.0	
18	3.0		43	0.0		68	2.5		93	9.0	
19	1.0		44	1.0		69	2.0		94	0.0	
20	2.5	2.5	45	1.5	2.0	70	13.0	15.0	95	5.0	6.5
21	3.0		46	2.0		71	4.5		96	0.5	
22	0.0		47	3.5		72	0.0		97	8.5	
23	0.0		48	9.0		73	1.5		98	0.0	
24	5.5		49	0.0		74	0.0		99	2.0	
25	10.0	19.0	50	1.0	1.0	75	0.0		100	5.0	10.0

118/060175

Incm 8-19-76

OCULAR ESTIMATE - CLIPPED PLOTS FOR GRASS-FORBS 83.C.3.12.2

Project 83 Site Dugout Ex-Drum 2 (Compartment "C") Date 16 Aug 76

Observer Kerbler & Martin Page 1 of 2

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
1	4.5		26	12.0		51	1.0		76	0.0	
2	3.5		27	0.0		52	0.0		77	4.0	
3	0.0		28	0.5		53	9.0		78	5.5	
4	0.0		29	0.0		54	0.0		79	0.0	
5	5.5	9.5	30	2.5	2.5	55	0.0		80	6.0	4.0
6	0.0		31	3.0		56	6.0	5.5	81	2.0	
7	4.5		32	3.5		57	7.5		82	0.0	
8	2.0		33	0.0		58	2.5		83	0.0	
9	1.0		34	0.5		59	0.0		84	0.0	
10	0.0		35	0.0		60	4.0	3.0	85	0.0	
11	1.5	2.0	36	0.0		61	0.0		86	0.0	
12	0.0		37	3.0	4.0	62	0.0		87	3.0	2.5
13	3.0		38	4.0		63	0.0		88	0.0	
14	4.0		39	3.0		64	0.0		89	0.0	
15	0.0		40	0.0		65	0.0		90	0.0	
16	2.0	2.0	41	6.0	8.5	66	3.0	2.5	91	5.5	4.5
17	14.0		42	0.0		67	11.0		92	0.0	
18	0.0		43	0.0		68	0.5		93	4.0	
19	1.0		44	0.0		69	9.0		94	0.5	
20	0.0		45	12.0	12.0	70	6.0	5.0	95	0.0	
21	2.0	2.0	46	0.0		71	0.0		96	0.0	
22	0.0		47	1.5		72	10.0		97	1.5	1.0
23	0.5		48	0.0		73	0.0		98	8.0	
24	0.5		49	7.0		74	0.0		99	2.0	
25	4.0	3.0	50	3.0	2.0	75	6.0	8.5	100	9.5	12.0

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83.0.31.2.2

OCULAR ESTIMATE - CLIPPED PLOTS FOR GRASS-FORBS

Project 83 Site Grazing Exclosure (Compartment "C") Date 8-16-76

Observer Kochler/Martin Page 2 of 2

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
101	2.0		126	6.5	6.0	51			76		
2	7.5		27	4.5		52			77		
3	2.5		28	3.5		53			78		
4	7.0		29	0.5		54			79		
105	5.0	5.0	130	1.5	1.0	55			80		
6	10.0		31	1.0		56			81		
7	0.0		32	3.5		57			82		
8	2.0		33	1.0		58			83		
9	2.0		34	0.0		59			84		
110	4.0	4.0	135	2.0	1.5	60			85		
11	3.0		36	1.0		61			86		
12	0.0		37	0.0		62			87		
13	1.5		38	7.5		63			88		
14	5.5		39	0.0		64			89		
115	0.0		140	0.0		65			90		
16	10.0	11.0	41	0.0		66			91		
17	0.0		42	2.0	2.0	67			92		
18	0.0		43	0.0		68			93		
19	0.0		44	0.0		69			94		
120	0.0		145	0.0		70			95		
21	0.5		46	3.5		71			96		
22	0.0		47	0.0		72			97		
23	0.0		48	8.0		73			98		
24	2.0	1.5	49	0.0		74			99		
125	0.0		150	5.5	5.5	75			100		

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OCULAR ESTIMATE -- CLIPPED PLOTS FOR GRASS-FORBS

83C.3.1.2.2

Project 83 Site Grazing Exclosure (control plot) Compartment D Date 8-16-76

Observer Kohler/Martin Page 1 of 2

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
1	0.0		26	1.0		51	4.0		76	0.5	
2	7.5		27	0.0		52	0.5		77	0.0	
3	4.5		28	0.0		53	0.5		78	4.0	
4	0.5		29	1.5		54	1.0		79	0.0	
5	0.5	0.5	30	4.0	3.5	55	0.5	0.5	80	2.0	2.0
6	0.5		31	8.0		56	2.5		81	1.0	
7	3.0		32	0.0		57	2.0		82	0.5	
8	0.0		33	0.0		58	2.5		83	1.0	
9	1.0		34	0.0		59	4.0		84	0.0	
10	3.0	2.5	35	1.5	1.5	60	0.0		85	6.5	9.5
11	4.0		36	1.0		61	2.5	3.0	86	1.0	
12	1.0		37	0.0		62	2.5		87	1.0	
13	1.5		38	1.0		63	0.5		88	0.0	
14	0.0		39	0.0		64	5.0		89	0.0	
15	0.5	0.5	40	1.5	0.5	65	1.0	1.0	90	5.0	9.0
16	0.5		41	0.5		66	1.0		91	0.0	
17	1.5		42	0.0		67	0.5		92	1.0	
18	1.0		43	1.0		68	0.5		93	1.0	
19	0.5		44	0.0		69	0.0		94	5.0	
20	4.0	3.0	45	1.0	1.5	70	2.0	1.5	95	0.5	0.5
21	3.0		46	0.5		71	12.0		96	0.0	
22	0.5		47	1.0		72	1.0		97	2.5	
23	6.0		48	0.0		73	0.0		98	0.0	
24	2.5		49	0.0		74	1.5		99	0.5	
25	5.0	7.0	50	2.0	3.0	75	2.0	2.0	100	0.0	

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OCULAR ESTIMATE - CLIPPED PLO FOR GRASS-FORBS

83.C.3.1.2.2

Project 83 Site Grazing Exclosure Control Plot Date 8-17-76

Observer Koehler/Martin Compartment "D" Page 2 of 2

	Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight		Ocular Estimate	Clipped Weight
01	0.5	0.5	126	3.0		51			76		
2	0.0		27	3.0		52			77		
3	0.0		28	0.0		53			78		
4	1.0		29	0.0		54			79		
05	3.0	3.0	130	1.5	1.5	55			80		
6	0.0		31	0.0		56			81		
7	0.5		32	1.5		57			82		
8	0.0		33	0.0		58			83		
9	0.0		34	0.0		59			84		
10	1.5	1.0	135	2.0	2.0	60			85		
11	0.0		36	0.0		61			86		
12	0.0		37	0.5		62			87		
13	0.0		38	1.5		63			88		
14	0.0		39	0.0		64			89		
15	2.5	2.5	140	0.0		65			90		
16	0.0		41	2.0	2.0	66			91		
17	0.5		42	0.5		67			92		
18	0.0		43	0.0		68			93		
19	0.0		44	3.0		69			94		
20	3.5	4.0	145	2.5	3.0	70			95		
21	6.0		46	0.5		71			96		
22	0.0		47	0.0		72			97		
23	0.0		48	3.5		73			98		
24	0.0		49	2.5		74			99		
25	1.5	1.0	150	3.0	2.5	75			100		

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DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

Project 83 Site Grazing Exclosure (A) Date 8-17-76

Observer(s) Keller/Martin Page 1 of 1

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Artr	55cm	50 cm	90%	100%	
Artr	55	75	30	100	
Artr	36	50	100	100	
Artr	40	60	95	100	
Artr	23	20	20	100	

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DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

Project 83 Site Grazing Exclosure (E) Date 8-17-76

Observer(s) Kiehler/Martin Page 1 of 2

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Artr	26cm	40 cm	100 %	100 %	
Artr	43	50	30	100	
Chvi	41	45	100	100	
Juos	45	45	100	100	
Artr	20	25	100	100	
Chna	37	35	90	100	
Artr	32	50	85	100	
Chna	48	30	75	100	
Artr	35	60	30	100	
Artr	28	65	100	100	
Artr	37	60	85	100	
Putr	24	35	100	100	
Artr	34	40	20	100	
Artr	35	45	65	100	
Chna	40	15	50	100	
Chna	33	30	40	100	
Chna	45	60	80	100	
Juos	23	15	100	100	
Artr	25	20	90	100	
Artr	28	35	90	100	
Artr	25	38	85	100	
Artr	31	45	80	100	
Artr	28	30	60	100	
Artr	40	75	70	100	

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DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

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Project 83 Site Grazing Exclosure (B) Date 8-17-76

Observer(s) Koehler/Martin Page 2 of 2

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Artr	25 cm	40 cm	90%	100%	
Chna	35	20	70	100	

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DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

Project 83 Site Grazing Exclosure C Date 8-17-76

Observer(s) Kohler/Martin Page 1 of 2

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Chna	43cm	70 cm	80%	100%	
Artr	15	17	60	100	
Putr	33	65	100	100	
Tuos	70	63	100	100	
Putr	32	40	100	100	
Artr	51	70	70	100	
Putr	53	80	95	100	
Chvi	36	25	40	100	
Artr	63	75	90	100	
Artr	45	60	95	100	
Chvi	35	20	50	100	
Artr	45	70	85	100	
Putr	25	60	100	100	
Chvi	47	50	40	100	
Artr	45	20	100	100	
Chvi	42	25	50	100	
Putr	28	45	100	100	
Putr	38	70	100	100	
Artr	62	65	60	100	
Tuos	77	55	100	100	
Artr	62	60	90	100	
Chvi	41	15	50	100	
Artr	60	50	100	100	
Artr	65	70	95	100	

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roject 83 Site Grazing Exclosure C Date 8-17-76

bserver(s) Koehler/Martin Page 2 of 2

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Chvi	52cm	50 cm	70%	100%	
Amal	21	17	100	100	
Amal	14	10	100	100	
Amal	71	50	70	100	
Artr	40	45	90	100	
Artr	46	55	30	100	
Chvi	51	45	80	100	
Artr	48	55	60	100	
Amal	17	12	100	100	
Putr	36	50	100	100	
Chvi	66	30	30	100	
Artr	52	45	75	100	
Artr	68	90	90	100	
Artr	27	35	80	100	
Putr	43	60	90	100	
Chvi	45	35	40	100	
Artr	35	40	75	100	
Chvi	43	25	80	100	
Artr	55	60	25	100	
Putr	30	30	100	100	
Pied	43	35	100	100	
Chvi	38	40	60	100	
Artr	57	65	95	100	
				100	

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83 C. 3.2.1.2

DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

Brm 8-19-76

Project 83 Site Grazing Exclosure (Compartment 0 (control)) Date 8-17-76

Observer(s) Koehler/Martin Page 1 of 3

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Putr	20cm	35cm	100%	100%	
Artr	70	45	60	100	
Artr	45	50	90	100	
Putr	40	70	100	100	
Artr	70	115	95	100	
Artr	30	15	50	100	
Putr	30	55	90	100	
Artr	65	50	35	100	
Putr	32	43	100	100	
Putr	33	60	100	100	
Putr	46	45	100	100	
Artr	51	35	50	100	
Artr	58	45	60	100	
Putr	36	32	95	100	
Putr	22	35	100	100	
Putr	37	65	90	100	
Putr	15	28	100	100	
Artr	32	40	90	100	
Artr	82	62	70	100	
Putr	32	40	100	100	
Putr	19	25	100	100	
Artr	45	45	50	100	
Artr	39	17	10	100	
Artr	62	60	90	100	

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DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

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Project 83 Site Grazing Exclosure (D) Date 8-17-76

Observer(s) Koehler/Martin Page 2 of 3

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Putr	18 cm	60 cm	100%	100%	
Putr	33	35	100	100	
Putr	16	30	100	100	
Putr	25	25	100	100	
Putr	17	25	100	100	
Putr	25	35	100	100	
Artr	38	30	60	100	
Artr	71	85	40	100	
Juos	198	110	100	90	
Artr	50	40	40	100	
Artr	23	30	80	100	
Putr	35	35	100	100	
Artr	41	30	50	100	
Artr	88	70	60	100	
Artr	55	30	40	100	
Pied	185	95	100	100	
Putr	31	55	100	100	
Pied	150	100	100	100	
Artr	25	15	100	100	
Artr	22	12	100	100	
Putr	24	21	100	100	
Putr	12	8	10	100	
Chna	32	20	40	100	
Putr	16	30	100	100	

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83 C.3.2.1.2

Arm 8-19-76

DATA SHEET FOR 0.004 HECTARE SHRUB PLOTS

Project 83 Site Grazing Exclosure (D) Date 8-17-76

Observer(s) Koehler/Martin Page 3 of 3

Species	Maximum Height	Mean Crown Diameter	Percent Alive	Percent Available	Remarks
Pied	205 cm	70 cm	100%	95%	
Juos	205	150	100	85	
Syor	22	15	100	100	
Putr	48	80	70	100	
Amel	52	50	95	100	
Putr	30	30	100	100	
Artr	48	70	60	100	
Putr	43	100	100	100	
Artr	17	10	100	100	
Artr	21	71	100	100	
Artr	49	45	100	100	
Artr	12	13	100	100	
Putr	25	15	100	100	
Artr	72	40	100	100	
Artr	61	58	100	100	
Putr	34	80	100	100	
Artr	11	15	50	100	

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

83.C.3.3.1.2

Field Analyst Martin Project 83 Date 8-18-76
Exclosure all mammals Compartment B (upper) (Lower) canop

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Species	Intercepts (m). I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I
Pied	0.00	1.80	2.78	5.31	7.10	9.95	10.80	18.42	28.24	30.
	0.00	1.00	5.30	6.19	6.37	6.79	7.37	8.02	8.32	9.
Juos	7.43	8.73	10.52	12.14	18.33	20.42	24.85	25.50	0.50	2.
	2.85	3.30	3.40	3.65	3.70	4.49	15.30	15.89	19.19	19.
	25.35	26.00								

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Sheet 1 of 1

GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

83.C.3312

Field Analyst Martin Project 83 Date 8-18-76
Exclosure all mammals Compartment A (upper) (lower) canopy

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	1.95	2.60	4.49	5.28	10.65	11.25	16.62	17.94	18.12	18.2
	28.78	29.00								
Juos	7.10	7.52	7.62	8.64	8.67	9.62	9.68	9.81	9.89	9.9
	18.40	18.52	18.66	18.84	19.40	19.89	1.18	2.95	13.41	13.8
	19.24	19.36	19.40	19.88	19.89	19.99				

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

83.C.3.3.12

Field Analyst Martin Project 83 Date 8-18-76
Exclosure cattle and deer Compartment B (upper) (lower) canopy
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Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	4.10	4.83	5.13	5.46	6.12	6.61	17.32	21.62		
Juos	28.19	29.48								

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

83 C.3.3.1.2

Field Analyst Martin Project 83 Date 8-18-76
Exclosure cattle and deer Compartment 6 ~~(upper)~~ (lower) canopy Lcm 8-19-76

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	28.29	29.18	3.94	4.23	4.28	5.12	5.37	6.92	2.31	2.63
	2.66	2.72	17.00	17.75	18.36	18.67	19.31	20.27	21.08	21.7
Juos	5.47	5.85	13.31	13.85	13.88	14.45	13.85	14.19	16.76	16.93
	17.04	17.27								

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MATURE TREE STRATUM

83.C.3.3.1.2

Field Analyst Martin Project 83 Date 8-18-76
Exclosure Cattle Compartment C (upper) (lower) canopy
Tom 8-18-76

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	20.67	21.61	26.64	30.37	0.15	1.13	17.45	19.43		
Tos	0.28	2.98	0.40	2.25	10.49	16.51	23.48	28.18	10.38	13.02
	13.46	15.25								

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MATURE TREE STUDY

83.C.33.12

Field Analyst Martin Project 83 Date 8-18-76
Exclosure cattle Compartment C (upper) (lower) canopy

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	29.39	29.59	29.72	29.87	15.64	16.59	21.96	22.65	2.69	4.3
	4.34	4.64	4.69	4.91	8.09	9.32	19.66	20.15	20.24	21.2
	29.28	30.08	27.27	28.67	29.32	29.80	18.67	18.89		
Juos	13.37	13.60	13.64	14.14	13.11	13.61	14.29	14.52	29.09	28.
	20.23	20.55	20.68	20.81	20.85	20.97	21.04	21.22	16.16	17.2
	17.27	17.69	6.62	7.28	10.70	11.10	11.19	11.46	11.58	11.8
	12.02	12.55	12.64	13.51	13.75	13.90	14.09	14.91	24.00	24.1

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

83.C.33.12

Field Analyst Martin Project 83 Date 8-18-76
Exclosure cattle Compartment C (upper) (lower) canopy

Done 8-19-76

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	29.39	29.59	29.72	29.87	15.64	16.59	21.96	22.65	2.69	4.3
	4.34	4.64	4.69	4.91	8.09	9.32	19.66	20.15	20.27	21.3
	29.28	30.08	27.27	28.67	29.32	29.80	18.67	18.89		
Pos	13.37	13.60	13.64	14.14	13.11	13.61	14.29	14.52	20.09	20.1
	20.23	20.55	20.68	20.81	20.85	20.97	21.04	21.22	16.16	17.2
	17.27	17.69	6.62	7.28	10.70	11.10	11.19	11.46	11.58	11.8
	12.02	12.55	12.64	13.51	13.75	13.90	14.09	14.91	24.00	24.1

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

Sheet 1 of 1

83.C.3.3.1.2

Field Analyst Martin Project 83 Date 8-18-76
Exclosure Control Plot Compartment D (upper) (lower) canopy

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	26.67	27.25	27.88	28.74	28.89	30.35	0.00	5.04	2.73	3.5
	8.98	12.26								
Juos										

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GRAZING EXCLOSURE DATA SHEET
MATURE TREE STRATUM

1. 1
83.C.33/2

Field Analyst Martin Project 83 Date 8-18-71
Exclosure Control Plot Compartment D (upper) (lower) canopy

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Pied	27.16	28.20	0.40	1.71	22.13	22.94	26.89	27.58	28.35	28.5
	29.78	30.23	3.80	4.34	10.96	11.18	11.22	11.64	10.55	10.8
	11.33	12.03	10.18	10.49	12.09	12.24				
Jus	15.29	15.50	15.57	15.94	22.42	22.73	25.42	26.11	26.22	26.3
	26.00	26.11	25.51	25.71	25.78	25.88				

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2.3.3 Small Mammals

2.3.3.3 Results

2.3.3.3.1 Live Trapping

Small mammal live trapping operations were conducted during July, 1976. This sample period was characterized by very high trap success. As a result, several grids met the criteria presented in Section 7.2.A.2 of the Second Annual Report (RBOSP, 1976) for extension of trapping effort to six (grid D) or seven trap nights (grids 3, 6, 7, and E). All other grids were sampled for five trap nights. A total of 2023 individuals comprising 11 species were captured during July. This represents a trapping success of about 36%. The species captured and their percent relative abundance based on number captured per 100 trap nights are shown on Table 2.3-25. The trapping results for each species at each grid are given in Tables 2.3-26 through 2.3-36.

The high trapping success encountered during July, 1976 was due mainly to the large number of captures of the deer mouse (Peromyscus maniculatus) and the least chipmunk (Eutamias minimus). These species exhibited abundance indices of 15.49 and 15.42 individuals per 100 trap nights which represents an approximate 300% increase from previous warm weather sample periods (October, 1974 and May, July, and September, 1975). The deer mouse and the least chipmunk also continued to dominate the trappable small mammal fauna accounting for 86.9% of all individuals captured. This is similar to the 82.45 combined relative abundance shown by other warm weather samples (Table 3-7-72 of the Second Annual Report, RBOSP, 1976). Both species were represented in samples from all grids with the deer mouse captured most frequently on grid 7, upland meadow (49.35 individuals/100 trap nights) and the least chipmunk encountered more often on grid A, greasewood-sagebrush (26.92 individuals/100 trap nights). The latter species also exhibited a more equitable distribution among the different habitat types.

The golden-mantled ground squirrel (Spermophilus lateralis) was the third most frequently captured small mammal during July, 1976 accounting for 5.29% of the total captures. The July trapping record for this species substantiates a trend indicated by the data for the deer mouse and the least chipmunk; the percent relative abundance, 5.29% is similar to previous warm weather samples, 5.41%, while capture success is approximately three-fold greater, 1.88 versus 0.74 individuals per 100 trap nights. The golden-mantled ground squirrel was captured on all grids except those located in bottomland meadow, Douglas fir, and aspen. It was captured most frequently on grid B, pinyon-juniper (south slope).

The fourth most abundant small mammal during July, 1976 was the Colorado chipmunk (Eutamias quadrivittatus). Though the trend is not as remarkable as the three previously discussed species, the data for this species exhibit the same pattern of an approximately 300%

Table 2.3-25. Summary of trapping results for all small mammal species captured at all grids during sample period 8, July 1976, for RBOSP.

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Spermophilus tridecemlineatus (thirteen-lined ground squirrel)	20	0.35	0.98
Spermophilus lateralis (golden-mantled ground squirrel)	107	1.88	5.29
Eutamias minimus (least chipmunk)	877	15.42	43.35
Eutamias quadrivittatus (Colorado chipmunk)	100	1.76	4.95
Perognathus apache (Apache pocket mouse)	1	0.02	0.06
Peromyscus maniculatus (deer mouse)	881	15.49	43.55
Peromyscus truei (piñon mouse)	8	0.14	0.39
Neotoma cinerea (bushy-tailed woodrat)	3	0.05	0.14
Microtus longicaudus (long-tailed vole)	5	0.09	0.25

Table 2.3-25. (Continued)

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Microtus montanus (Montane vole)	8	0.14	0.39
Clethrionomys gapperi (red-backed vole)	13	0.23	0.65
TOTAL	2,023	35.93	

1/ Trap night - one trap baited and set for 24 hours

2/ (Number of individuals of each species/number of individuals of all species) x 100

2.3.3 Small Mammals

2.3.3.3 Results

2.3.3.3.1 Live Trapping

Small mammal live trapping operations were conducted during July, 1976. This sample period was characterized by very high trap success. As a result, several grids met the criteria presented in Section 7.2.A.2 of the Second Annual Report (RBOSP, 1976) for extension of trapping effort to six (grid D) or seven trap nights (grids 3, 6, 7, and E). All other grids were sampled for five trap nights. A total of 2023 individuals comprising 11 species were captured during July. This represents a trapping success of about 36%. The species captured and their percent relative abundance based on number captured per 100 trap nights are shown on Table 2.3-25. The trapping results for each species at each grid are given in Tables 2.3-26 through 2.3-36.

The high trapping success encountered during July, 1976 was due mainly to the large number of captures of the deer mouse (Peromyscus maniculatus) and the least chipmunk (Eutamias minimus). These species exhibited abundance indices of 15.49 and 15.42 individuals per 100 trap nights which represents an approximate 300% increase from previous warm weather sample periods (October, 1974 and May, July, and September, 1975). The deer mouse and the least chipmunk also continued to dominate the trappable small mammal fauna accounting for 86.9% of all individuals captured. This is similar to the 82.45 combined relative abundance shown by other warm weather samples (Table 3-7-72 of the Second Annual Report, RBOSP, 1976). Both species were represented in samples from all grids with the deer mouse captured most frequently on grid 7, upland meadow (49.35 individuals/100 trap nights) and the least chipmunk encountered more often on grid A, greasewood-sagebrush (26.92 individuals/100 trap nights). The latter species also exhibited a more equitable distribution among the different habitat types.

The golden-mantled ground squirrel (Spermophilus lateralis) was the third most frequently captured small mammal during July, 1976 accounting for 5.29% of the total captures. The July trapping record for this species substantiates a trend indicated by the data for the deer mouse and the least chipmunk; the percent relative abundance, 5.29% is similar to previous warm weather samples, 5.41%, while capture success is approximately three-fold greater, 1.88 versus 0.74 individuals per 100 trap nights. The golden-mantled ground squirrel was captured on all grids except those located in bottomland meadow, Douglas fir, and aspen. It was captured most frequently on grid B, pinyon-juniper (south slope).

The fourth most abundant small mammal during July, 1976 was the Colorado chipmunk (Eutamias quadrivittatus). Though the trend is not as remarkable as the three previously discussed species, the data for this species exhibit the same pattern of an approximately 300%

Table 2.3-25. Summary of trapping results for all small mammal species captured at all grids during sample period 8, July 1976, for RBOSP.

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Spermophilus tridecemlineatus (thirteen-lined ground squirrel)	20	0.35	0.98
Spermophilus lateralis (golden-mantled ground squirrel)	107	1.88	5.29
Eutamias minimus (least chipmunk)	877	15.42	43.35
Eutamias quadrivittatus (Colorado chipmunk)	100	1.76	4.95
Perognathus apache (Apache pocket mouse)	1	0.02	0.06
Peromyscus maniculatus (deer mouse)	881	15.49	43.55
Peromyscus truei (piñon mouse)	8	0.14	0.39
Neotoma cinerea (bushy-tailed woodrat)	3	0.05	0.14
Microtus longicaudus (long-tailed vole)	5	0.09	0.25

Table 2.3-25. (Continued)

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Microtus montanus (Montane vole)	8	0.14	0.39
Clethrionomys gapperi (red-backed vole)	13	0.23	0.65
TOTAL	2,023	35.93	

1/ Trap night - one trap baited and set for 24 hours

2/ (Number of individuals of each species/number of individuals of all species) x 100

Table 2.3-26. Summary of trapping results for Spermophilus tridecemlineatus (thirteen-lined gr. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	12.12	100.0	0.10	0.25	0.45	0.20
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.35					

* 1 trap night = one trap baited and set for 24 hours

** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-27. Summary of trapping results for Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	1.21	6.4	1.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	1.21	6.4	0.00	1.00	0.00	0.00
5	Mixed brush	2.42	12.7	0.25	0.75	0.00	0.00
6	Pinyon-juniper/sagebrush	0.87	4.6	0.50	0.50	0.00	0.00
7	Upland meadow	0.43	2.3	0.00	1.00	0.00	0.00
A	Greasewood-sagebrush	1.50	7.9	0.60	0.30	0.10	0.00
B	Pinyon-juniper (south slope)	4.96	26.1	0.33	0.67	0.00	0.00
C	Pinyon-juniper (north slope)	1.50	7.9	0.40	0.60	0.00	0.00
D	Sagebrush	2.01	10.5	0.38	0.63	0.00	0.00
E	Mixed brush	2.90	15.2	-	-	-	-
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	1.88					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100
\- Positive sex identification could not be made in the field for all individuals

Table 2.3-28. Summary of trapping results for Eutamias minimus (least chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	6.06	2.8	0.50	0.40	0.00	0.10
2	Sagebrush	15.15	7.0	0.60	0.40	0.00	0.00
3	Rabbitbrush	23.38	10.9	0.46	0.54	0.00	0.00
4	Pinyon-juniper/mixed brush	18.79	8.7	0.58	0.42	0.00	0.00
5	Mixed brush	24.24	11.3	-	-	-	-
6	Pinyon-juniper/sagebrush	12.99	6.0	0.57	0.43	0.00	0.00
7	Upland meadow	10.82	5.0	0.56	0.44	0.00	0.00
A	Greasewood-sagebrush	26.92	12.5	0.58	0.40	0.02	0.01
B	Pinyon-juniper (south slope)	13.83	6.4	0.63	0.36	0.01	0.00
C	Pinyon-juniper (north slope)	11.28	5.2	-	-	-	-
D	Sagebrush	10.53	4.9	0.38	0.55	0.04	0.04
E	Mixed brush	17.08	7.9	0.54	0.41	0.03	0.03
F	Douglas fir	15.41	7.2	0.49	0.51	0.00	0.00
G	Aspen	8.52	4.0	0.31	0.65	0.00	0.04
	AVERAGE	15.42					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100
\- Positive sex identification could not be made in the field for all individuals

Table 2.3-29. Summary of trapping results for Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	8.48	29.8	0.50	0.36	0.14	0.00
5	Mixed brush	2.42	8.5	0.25	0.75	0.00	0.00
6	Pinyon-juniper/sagebrush	6.06	21.3	0.29	0.71	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	1.35	4.8	0.44	0.56	0.00	0.00
B	Pinyon-juniper (south slope)	2.41	8.5	0.44	0.44	0.13	0.00
C	Pinyon-juniper (north slope)	4.51	15.9	0.50	0.47	0.00	0.03
D	Sagebrush	0.38	1.3	0.33	0.67	0.00	0.00
E	Mixed brush	0.21	0.8	1.00	0.00	0.00	0.00
F	Douglas fir	2.30	8.1	0.29	0.71	0.00	0.00
G	Aspen	0.33	1.2	0.00	1.00	0.00	0.00
	AVERAGE	1.76					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-30. Summary of trapping results for Perognathus apache (Apache pocket mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.43	100.0	1.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.02					

* 1 trap night = one trap baited and set for 24 hours

** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-31. Summary of trapping results for Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	20.00	9.1	0.39	0.52	0.03	0.06
2	Sagebrush	9.09	4.1	0.40	0.53	0.00	0.07
3	Rabbitbrush	16.45	7.5	-	-	-	-
4	Pinyon-juniper/mixed brush	9.70	4.4	0.06	0.63	0.19	0.13
5	Mixed brush	6.67	3.0	0.36	0.45	0.09	0.09
6	Pinyon-juniper/sagebrush	13.85	6.3	0.41	0.38	0.03	0.19
7	Upland meadow	49.35	22.4	-	-	-	-
A	Greasewood-sagebrush	8.57	3.9	-	-	-	-
B	Pinyon-juniper (south slope)	4.06	1.8	0.52	0.26	0.07	0.15
C	Pinyon-juniper (north slope)	13.83	6.3	0.41	0.36	0.11	0.12
D	Sagebrush	17.42	7.9	-	-	-	-
E	Mixed brush	23.85	10.8	-	-	-	-
F	Douglas fir	12.13	5.5	0.27	0.41	0.11	0.22
G	Aspen	15.74	7.1	0.63	0.29	0.08	0.00
	AVERAGE	15.49					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100
\- Positive sex identification could not be made in the field for all individuals

Table 2.3-32. Summary of trapping results for Peromyscus truei (piñon mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.75	62.5	0.60	0.20	0.00	0.20
C	Pinyon-juniper (north slope)	0.45	37.5	0.00	0.67	0.33	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.14					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-33. Summary of trapping results for Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.30	66.7	0.00	1.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.15	33.3	0.00	1.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.05					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-34. Summary of trapping results for Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.43	56.7	0.75	0.25	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.33	43.3	0.00	1.00	0.00	0.00
	AVERAGE	0.09					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-35. Summary of trapping results for Microtus montanus (montane vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	4.85	100.0	0.13	0.63	0.00	0.25
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.14					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

Table 2.3-36. Summary of trapping results for Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	4.26	100.0	0.31	0.62	0.00	0.08
	AVERAGE	0.23					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals on each grid / # of individuals on all grids) X 100

increase in abundance (1.76 versus 0.43 individuals/100 trap nights) without a great change in the percent relative abundance (4.95 versus 3.14%) from the other warm weather sample periods. The Colorado chipmunk was captured on all girds except four, and was most abundant on grid 6, pinyon-juniper/sagebrush.

The remaining seven small mammal species encountered during July, 1976 trapping efforts accounted for only 2.86% of the total abundance. With the exception of the red-backed vole (Clethrionomys gapperi), the differences in percent relative abundance and capture success between July and previous sampling periods for these species are not remarkable. The red-backed vole, however, showed an 82% decrease in relative abundance. Moreover, the captures of this species was limited to aspen grids whereas previously it has been captured in all three high elevation grids (aspen, Douglas fir, and mixed brush). As in the case of all of the July small mammal data, it is hoped that information obtained during September, 1976 will help establish whether the changes seen are indicative of real trends or merely changes in trap attractability.

Average adult weights for small mammal species captured in each grid are shown in Table 2.3-37 to 2.3-47. Only the initial capture weights were used in average weight determination. As expected, average weights are similar to those determined for other warm weather samples (see Section 7.2.A.3 in the Second Annual Report, RBOSP, 1976).

Shannon Weiner species diversity indices are presented for each grid in Table 2.3-48. As expected from the high capture success and large number of different species captured, species diversity is generally higher for all grids than in previous warm weather sampling periods (see Section 7.2.A.3 of the Second Annual Report, RBOSP, 1976). Although some of the results are not directly comparable as a result of different trapping efforts allocated to the various grids, the grids established in pinyon-juniper again exhibited the highest diversity indices.

2.3.3.3.2 Pitfall Trapping

Pitfall trapping was conducted during live trapping operation in July, 1976. In addition to species represented in live trap samples, a single sagebrush vole (Lagurus curtatus) was captured in pitfall D, sagebrush, and a northern pocket gopher (Thomomys talpoides) and five shrews were captured in pitfall G, aspen. The shrews are presently being identified and will be reported in the Final Report.

2.3.3.3.3 Stomach Analysis and Reproductive Effort

Removal trap lines were established in all the major vegetation types during July, 1976 for the collection of small mammals for stomach content and reproductive tract analyses.

Table 2.3-37. Average live weights (gm) for adult Spermophilus tridecemlineatus (thirteen-lined grd. sqr.), on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	2	49.0	4.0	4	83.3	3.2	6	71.8	7.6
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	2	49.0	4.0	4	83.3	3.2	6	71.8	7.6

Table 2.3-38. Average live weights (gm) for adult Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	2	155.0	0.0	0			2	155.0	0.0
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			2	171.0	1.0	2	171.0	1.0
5	Mixed brush	1	188.0		3	150.0	7.0	4	159.5	10.7
6	Pinyon-juniper/sagebrush	1	186.0		1	136.0		2	161.0	25.0
7	Upland meadow	0			1	124.0		1	124.0	
A	Greasewood-sagebrush	4	166.3	14.3	3	124.0	3.1	7	148.1	11.5
B	Pinyon-juniper (south slope)	9	164.9	9.6	20	186.4	9.6	29	179.7	7.4
C	Pinyon-juniper (north slope)	3	165.3	14.0	6	156.8	12.1	9	159.7	8.9
D	Sagebrush	4	161.8	10.1	9	153.2	6.1	13	155.8	5.1
E	Mixed brush	8	177.3	11.2	6	142.0	7.2	14	162.1	8.4
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	32	168.6	4.5	51	163.2	5.1	83	165.3	3.6

Table 2.3-39. Average live weights (gm) for adult Eutamias minimus (least chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	4	30.5	1.8	3	29.7	2.0	7	30.1	1.3
2	Sagebrush	9	30.0	0.7	9	30.2	0.5	18	30.1	0.4
3	Rabbitbrush	17	29.9	0.9	26	30.6	0.8	43	30.3	0.6
4	Pinyon-juniper/mixed brush	12	30.5	0.9	11	31.9	0.9	23	31.2	0.6
5	Mixed brush	20	29.9	0.8	14	31.7	0.7	34	30.6	0.6
6	Pinyon-juniper/sagebrush	15	30.5	0.9	10	30.6	0.8	25	30.6	0.6
7	Upland meadow	9	31.2	1.1	7	30.0	0.0	16	30.7	0.6
A	Greasewood-sagebrush	73	30.8	0.3	50	30.0	0.5	123	30.5	0.3
B	Pinyon-juniper (south slope)	52	31.2	0.6	31	33.8	0.8	83	32.2	0.5
C	Pinyon-juniper (north slope)	31	30.1	0.7	35	31.2	0.5	66	30.7	0.4
D	Sagebrush	28	30.1	0.6	41	32.5	0.5	69	31.5	0.4
E	Mixed brush	46	30.0	0.5	38	31.3	0.5	84	30.6	0.4
F	Douglas fir	22	33.6	1.7	24	34.9	1.1	46	34.3	1.0
G	Aspen	8	30.8	0.8	16	33.8	0.9	24	32.8	0.7
	SUMMARY--ALL GRIDS	346	30.7	0.2	315	31.8	0.2	661	31.2	0.2

Table 2.3-40. Average live weights (gm) for adult Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	6	46.3	0.6	4	48.8	1.7	10	47.3	0.8
5	Mixed brush	1	48.0		3	46.3	2.2	4	46.8	1.6
6	Pinyon-juniper/sagebrush	3	51.7	2.7	3	47.7	3.8	6	49.7	2.3
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	4	48.0	3.8	4	48.0	2.4	8	48.0	2.1
B	Pinyon-juniper (south slope)	6	43.2	1.7	7	46.7	1.9	13	45.1	1.4
C	Pinyon-juniper (north slope)	15	45.5	1.0	12	45.3	1.5	27	45.4	0.9
D	Sagebrush	1	47.0		2	49.5	0.5	3	48.7	0.9
E	Mixed brush	1	44.0		0			1	44.0	
F	Douglas fir	1	44.0		4	41.0	1.0	5	41.6	1.0
G	Aspen	0			1	50.0		1	50.0	
	SUMMARY--ALL GRIDS	38	46.1	0.7	40	46.3	0.8	78	46.2	0.5

Table 2.3-41. Average live weights (gm) for adult Perognathus apache (Apache pocket mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	1	12.0		0			1	12.0	
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	1	12.0		0			1	12.0	

Table 2.3-42. Average live weights (gm) for adult Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	13	17.1	0.5	17	17.1	0.6	30	17.1	0.4
2	Sagebrush	6	17.2	1.1	7	18.7	1.2	13	18.0	0.8
3	Rabbitbrush	12	16.8	0.6	11	16.5	0.6	23	16.7	0.4
4	Pinyon-juniper/mixed brush	1	16.0		9	19.3	2.2	10	19.0	2.0
5	Mixed brush	3	17.3	1.3	3	18.0	1.0	6	17.7	0.8
6	Pinyon-juniper/sagebrush	11	16.2	0.9	10	16.5	0.8	21	16.3	0.6
7	Upland meadow	34	16.6	0.4	30	16.2	0.4	64	16.4	0.3
A	Greasewood-sagebrush	21	17.2	0.4	25	17.3	0.8	46	17.3	0.5
B	Pinyon-juniper (south slope)	11	17.4	0.7	7	16.6	0.7	18	17.1	0.5
C	Pinyon-juniper (north slope)	32	16.7	0.6	28	16.3	0.5	60	16.5	0.4
D	Sagebrush	32	16.7	0.6	30	16.6	0.4	62	16.6	0.4
E	Mixed brush	75	15.8	0.3	69	16.1	0.3	144	15.9	0.2
F	Douglas fir	9	15.8	0.6	14	16.9	0.8	23	16.4	0.5
G	Aspen	25	17.1	0.6	14	17.1	0.6	39	17.1	0.4
	SUMMARY--ALL GRIDS	285	16.5	0.2	274	16.7	0.2	559	16.6	0.1

Table 2.3-43. Average live weights (gm) for adult Peromyscus truei (piñon mouse) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	3	18.0	0.6	1	18.0		4	18.0	0.4
C	Pinyon-juniper (north slope)	0			2	21.5	2.5	2	21.5	2.5
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	3	18.0	0.6	3	20.3	1.9	6	19.2	1.0

Table 2.3-44. Average live weights (gm) for adult Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			1	150.0		1	150.0	
C	Pinyon-juniper (north slope)	0			1	139.0		1	139.0	
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	0			2	144.5	5.5	2	144.5	5.5

Table 2.3-45. Average live weights (gm) for adult Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomlandmeadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	2	15.5	2.5	0			2	15.5	2.5
F	Douglas fir	0			0			0		
G	Aspen	0			1	28.0		1	28.0	
	SUMMARY--ALL GRIDS	2	15.5	2.5	1	28.0		3	19.7	4.4

Table 2.3-46. Average live weights (gm) for adult Microtus montanus (montane vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			5	33.8	2.5	5	33.8	2.5
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	0			5	33.8	2.5	5	33.8	2.5

Table 2.3-47. Average live weights (gm) for adult Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 8, July 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	3	20.7	0.7	6	20.0	1.8	9	20.2	1.2
	SUMMARY--ALL GRIDS	3	20.7	0.7	6	20.0	1.8	9	20.2	1.2

Table 2.3-48. Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all small mammal grids during sample period 8, July 1976, for RBOSP

Grid Designation	Vegetation Type	H'	E(H')	var(H')	H'(max)	J
1	Bottomland meadow	0.892	0.872	0.008	1.099	0.812
2	Sagebrush	1.185	1.161	0.003	1.386	0.855
3	Rabbitbrush	0.678	0.673	0.000	0.693	0.978
4	Pinyon-juniper/mixed brush	1.141	1.117	0.005	1.386	0.823
5	Mixed brush	0.942	0.916	0.012	1.386	0.679
6	Pinyon-juniper/sagebrush	1.189	1.163	0.005	1.609	0.739
7	Upland meadow	0.510	0.503	0.003	1.099	0.464
A	Greasewood-sagebrush	0.828	0.822	0.003	1.386	0.598
B	Pinyon-juniper (south slope)	1.312	1.298	0.004	1.792	0.732
C	Pinyon-juniper (north slope)	1.237	1.225	0.002	1.792	0.691
D	Sagebrush	0.920	0.914	0.002	1.386	0.663
E	Mixed brush	0.976	0.970	0.001	1.792	0.545
F	Douglas fir	0.904	0.893	0.003	1.099	0.823
G	Aspen	1.074	1.052	0.005	1.609	0.668

The specimens collected are presently being analyzed and the results will be reported in the Final Report.

2.3.3.3.4 Bat Mist Netting

Bats were sampled over stock tanks in the vicinity of Tract C-a during June 23-26 and August 23-26, 1976. The August data are still being analyzed. In June, 33 bats were captured comprising 6 species. The predominant species captured was the long-eared myotis (Myotis evotis) representing 42% of the total captures. Lesser numbers of the long-legged myotis (Myotis volans), the small-footed myotis (Myotis leibii) and the big brown bat (Eptesicus fuscus) were captured. One individual each of the hoary bat (Lasiurus cinereus) and the silver-haired bat (Lasionycteris noctivagans) were also captured in June.

LITERATURE CITED

RBOSP. 1976. Second Annual Report for the Terrestrial Data Accumulation Program. January 1976. 3 volumes.

2.3.3.5 Small Mammal Raw Data

2.3.3.5 Small Mammal Raw Data

File No: [illegible]

Sheet 1 of 4 · SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenewood / Sun Grid A Sample Period 4 ~~Trap Night~~ [illegible]

Date, time traps set 7/23/76 (am) Date, time traps checked 7/24/76 (am)

Last toe clip # used on previous day 2024 / 2240 Field Analyst(s) Sun

Project 53 QA Check Ann 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	[illegible]	2301	M	A	U	D	
D-1	[illegible]	2350	F	A	20	A	
E-1	[illegible]	2410	M	A	[illegible]	[illegible]	
H-1	[illegible]	0243	[illegible]	A	U	D	
I-1	[illegible]	1000	F	A	U	D	[illegible]
K-1	[illegible]	2420	M	A	21	[illegible]	
L-1	PEMA	2430	M	A	19	[illegible]	
M-1	[illegible]	2440	M	A	U	D	
M-2	[illegible]	0220	M	A	U	D	
L-2	[illegible]	[illegible]	F	U	19	A	[illegible]
I-2	[illegible]	[illegible]	[illegible]	A	U	D	
H-2	[illegible]	3011	F	A	19	A	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	M	A	[illegible]	[illegible]	
B-2	[illegible]	[illegible]	F	[illegible]	[illegible]	[illegible]	
K-3	[illegible]	0350	M	A	U	D	
G-3	[illegible]	[illegible]	M	A	21	[illegible]	[illegible]
F-3	[illegible]	[illegible]	F	A	14	[illegible]	
H-3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
K-3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
L-3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	D	
K-4	[illegible]	[illegible]	[illegible]	[illegible]	32	[illegible]	
F-5	[illegible]	0425	[illegible]	[illegible]	30	[illegible]	
E-4	[illegible]	[illegible]	M	A	[illegible]	[illegible]	
E-4	[illegible]	[illegible]	F	A	38	[illegible]	
F-5	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	
D-5	[illegible]	[illegible]	F	A	[illegible]	[illegible]	
G-4	[illegible]	[illegible]	[illegible]	[illegible]	18	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	A	[illegible]	[illegible]	[illegible] Frasier
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	U	D	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83 C.S.A.2.74

Grid Name Greasewood/Sage Grid A Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (p.m.) Date, time traps checked 7/24/76 (a.m.)

Last toe clip # used on previous day 2024/2340 Field Analyst(s) Sunz

Project 83 QA Check Lrm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-6	EUMI	3041	M	A	32	I	
F-6	EUMI	3042	M	A	34	I	
G-6	EUMI	3043	M	A	31	I	
J-4	EUMI	3044	M	A	U	D	
L-4	PEMA	3045	F	A	19	A	
M-4	EUMI	3046	F	A	29	I	
M-6	EUMI	3051	F	A	U	D	
M-5	EUMI	3052	M	A	U	D	
J-6	PEMA	3053	F	A	20	I	
I-5	EUMI	3055	M	A	32	I	containing gravid embryos
H-6	PEMA	3101	F	A	16	I	
J-7	EUMI	3101	M	I	23	I	
H-7	EUMI	3102	M	A	31	I	
G-7	EUMI	3103	F	A	U	D	
F-7	EUMI	0055	F	A	U	D	

*Key taxonomic characters, physical condition of animal, etc.

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File No: [illegible]

Sheet 3 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood/Sand Grid A Sample Period 1 Trap Night 1

Date, time traps set 7/23/76 (0822) Date, time traps checked 7/24/76 (0730)

Last toe clip # used on previous day 2024/2340 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Eumi	2025	m	A	32	I	
A3	Eumi	2031	F	A	U	D	Dead
A4	Eumi	2032	F	A	U	D	Dead
A8	Eumi	2033	F	A	U	D	Dead
A10	Eumi	2034	m	A	U	D	Dead
A11	SDIA	0154	m	A	19	I	
D3	Eumi	2035	m	A	25	I	
B13	Eumi	2041	m	A	25	I	
C13	PEMA	2042	m	A	18	I	
D13	Eumi	2315	m	A	29	I	
F13	Eumi	0204	m	A	32	I	
J13	Eumi	2043	m	A	30	I	
K13	PEMA	2314	m	A	16	I	
L13	PEMA	2312	F	A	17	A	two in cage - lactating
L13	PEMA	2044	F	J	7	I	
M13	PEMA	2045	m	A	14	I	
M12	Eumi	1235	F	A	U	D	Dead
K12	Eumi	2014	F	A	27	I	
J12	Eumi	2015	m	A	30	I	
F12	Eumi	1224	F	A	U	D	Dead
D12	EUQU	2052	F	A	42	I	[illegible]
B12	PEMA	2053	F	A	13	A	
B11	Eumi	2054	F	A	30	I	
C11	EUQU	2055	F	A	52	I	
F11	PEMA	0213	m	A	18	I	
H11	PEMA	2101	F	A	16	I	
M11	EUMA	2102	m	A	30	I	[illegible]
M10	PEMA	2023	m	A	U	I	escaped [illegible]
K10	PEMA	2103	M	J	17	I	
J10	PEMA	2104	M	A	14	A	
J9	Eumi	2105	M	A	24	I	[illegible]

*Key taxonomic characters, physical condition of animal, etc.

BLM PROGRESS REPORT

070/060175

File No: 83.0.3.1.1.14

Sheet 1 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassland/Sage Grid A Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (0900) Date, time traps checked 7/24/76 (0900)

Last toe clip # used on previous day 2024/2340 Field Analyst(s) clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
I 10	EUMI	2201	F	A	U	I	escaped before weighing
G 10	PEMA	2202	M	A	13	I	chipping Sage sparrow
G 9	EUMI	2203	F	A	32	I	
E-10	EUMI	2204	M	A	30	I	
F 9	EUMI	2205	M	A	28	A	lactating
E9	PEMA	3401	F	A	16	I	
E10	SPLA	3402	F	A	128	I	
D 10	SPLA	3403	F	A	118	I	
D 9	EUMI	3404	F	A	34	I	
C 10	EUMI	3405	M	A	28	I	
B8	PEMA	3110	F	A	29	I	
C 8	EUMI	3120	F	A	31	I	in torpor
D-7	EUMI	3130	F	A	30	A	worms
D-8	EUMI	3140	M	A	29	A	
E-8	EUMI	3150	M	A	U	I	escaped before weighing
F-8	PEMA	3210	F	A	19	A	lactating
H-8	EUMI	3220	F	A	18	I	in torpor
J-8	PEMA	3230	F	A	16	A	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: [illegible]

Sheet 1 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood/Sage Grid A Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (0800) Date, time traps checked 7/25/76 (0800)

Last toe clip # used on previous day 3103/3[illegible] Field Analyst(s) [illegible]

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	EUMI	3104	F	A	34	I	
C-1	EUMI	3105	F	A	33	I	
D-1	EUMI	1414	F	A	U	I	
E-1	EUMI	5000	M	A	U	D	
H-1	EUMI	5001	M	A	U	D	
J-1	EUMI	2420	M	A	U	D	
K-1	SPLA	5002	M	A	U	D	
L-1	EUMI	5003	M	J	U	D	
M-1	EUMI	3202	M	A	31	I	
M-2	[illegible]	3203	M	A	34	I	
J-2	[illegible]	3055	F	A	U	A	
H-2	EUMI	3204	F	A	30	I	
[illegible]	PEMA	0402	M	A	21	I	Could be [illegible]
D-2	[illegible]	3205	F	A	31	I	
C-2	[illegible]	3301	M	A	33	I	
B-3	PEMA	3302	F	A	21	A	
A-3	EUMI	3303	M	A	36	A	[illegible] testes
C-3	EUMI	5004	M	A	U	D	
H-3	EUMI	3012	F	A	U	I	
K-3	EUMI	3004	M	A	34	I	
L-3	[illegible]	3005	F	A	20	I	
I-4	PEMA	3025	M	A	U	I	
H-4	EUMI	3041	M	A	U	I	
G-4	EUMI	403[illegible]	M	A	[illegible]	I	
F-5	PEMA	1993	F	A	20	I	
E-4	EUMI	0425	M	A	U	D	
E-5	SPLA	2112	M	A	185	I	
D-5	EUMI	3014	M	A	U	I	
D-4	EUMI	2131	M	A	33	I	
C-4	EUMI	5005	F	A	U	D	
B-4	EUMI	4032	M	A	33	I	

*Key taxonomic characters, physical condition of animal, etc.

070[illegible]0175 PROG PROGRESS REPORT

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Sheet 2 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood / Sage Grid A Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (0800) Date, time traps checked 7/25/76 (0800)

Last toe clip # used on previous day 3193/3230 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-6	EUMI	4033	m	A	34	I	
C-6	EUMI	4034	m	A	32	I	
D-6	EUMI	3013	m	A	U	I	
E-6	PEMA	4035	m	A	18	I	
G-6	EUMI	4041	m	A	35	A	swollen testes
H-5	EUMI	4042	m	A	33	I	
J-4	EUMI	4043	m	A	32	I	
L-4	EUMI	4044	m	A	30	I	
M-4	EUMI	4045	F	A	31	I	
M-6	EUMI	5006	M	A	U	D	
M-8	EUMI	5007	F	A	U	D	
L-6	PEMA	4051	M	A	16	I	
J-6	EUMI	3055	M	A	U	D	
J-5	EUMI	1423	M	A	U	D	
H-6	EUMI	(12)115	M	A	33	I	1st foot marked 12
H-5	EUMI	4052	F	A	36	I	
		90/					

*Key taxonomic characters, physical condition of animal, etc.

070/060175 [illegible] PROGRESS REPORT

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TDC NO: 83-3-13-14

Sheet 3 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood/Sage Grid A Sample Period 8 Trap Night

Date, time traps set 7/24/76 (0800) Date, time traps checked 7/25/76 (0800)

Last toe clip # used on previous day 3103/3225 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	3240	m	A	28	I	
A-2	EUMI	3266	m	A	32	I	
A-3	EUMI	3316	m	A	25	I	Expos 1c
A-4	EUMI	6000	F	A	U	D	DEAD
A-6	EUMI	6100	m	A	U	D	"
A-11	EUQU	3340	m	A	40	I	
A-12	EUMI	2041	M	A	U	I	
C-13	EUMI	3250	F	A	26	I	
D-13	EUMI	3110	m	A	31	I	
F13	EUMI	0331	m	A	26	I	
H-13	EUQU	3420	F	A	46	I	
J-13	EUMI	2051	m	A	U	I	
K-13	EUMI	3430	F	A	30	I	
L-13	SPLA	3440	F	A	126	I	
M-13	PEMA	2312	F	A	13	I	Exposure
N-12	EUMI	1355	F	A	20	I	
L-12	EUMI	6200	m	A	U	D	DEAD
J-12	EUMI	4011	m	A	25	I	
H-12	EUMI	2315	m	A	28	I	
F-12	EUQU	6300	F	A	U	D	DEAD
C-12	EUMI	4012	m	A	30	I	
B-12	EUMI	4014	F	A	28	I	
C-11	EUMI	2054	F	A	U	I	
M-11	EUMI	2017	M	A	29	I	
K-10	EUMI	4015	m	A	27	I	
J-9	PEMA	2213	m	A	U	A	Smaller testes
I-9	EUMI	4021	m	A	30	I	
I-10	EUMI	4033	F	A	30	I	
N-9	EUMI	1223	F	A	30	A	Lact.
G-10	EUMI	4022	F	A	U	I	
E-10	EUMI	4023	F	A	28	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 4 of 4 File No: 83.0.5.1.2.14

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grasswood/Sage Grid A Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (0800) Date, time traps checked 7/25/76 (0800)

Last toe clip # used on previous day 3103/3230 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-9	EUQU	4024	m	A	43	I	
D-9	EUMI	0204	m	A	32	I	
C-10	EUMI	3405	m	A	U	I	
B-8	EUMI	4025	F	A	20	I	
D-8	EUMI	4110	F	A	32	I	
D-7	EUMI	4120	F	A	30	I	
E-6	PEMA	4130	F	A	18	A	[illegible]
E-8	EUMI	4140	m	A	34	I	
E-7	PEMA	4150	F	A	20	A	CICG
G-8	EUMI	3102	m	A	U	I	
H-7	EUMI	3201	m	A	U	I	
J-7	EUMI	3035	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 53-5-7-7-2

Sheet 1 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassland/Sage Grid A Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (0600) Date, time traps checked 7/26/76 (0800)

Last toe clip # used on previous day 4150/4251 Field Analyst(s) Sandy

Project 53 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	EUMI	4052	m	A	28	I	
C-1	EUMI	3204	F	A	U	I	
D-1	PEMA	2350	F	A	U	A	
F-1	EUMI	2114	F	A	U	I	
H-1	EUMI	2450	M	A	U	I	
K-1	EUMI	4053	F	A	30	I	
L-1	EUMI	4054	F	A	31	I	suffering from exposure
M-2	EUMI	4055	m	A	33	I	ticks
L-2	EUMI	4102	m	A	31	I	suffering from exposure
J-2	PEMA	4103	m	A	18	A	
H-2	SPLA	4104	m	J	87	I	
F-2	PEMA	4105	m	A	20	I	
[illegible]	EUMI	4202	[illegible]	A	35	I	
C-2	EUMI	1134	F	A	U	I	
B-2	EUMI	1153	M	A	U	I	
B-3	EUMI	4203	F	J	21	I	
C-3	EUMI	4204	m	A	28	I	
H-3	EUMI	3012	F	A	U	I	suffering from exposure
J-3	PEMA	2402	F	A	U	I	" " "
K-3	EUMI	3043	m	A	U	I	" " "
K-4	EUMI	0050	F	A	32	I	" [illegible]
I-4	EUMI	4205	M	A	31	I	
H-4	PEMA	3101	m	A	U	I	
G-4	EUMI	4031	m	A	U	I	
F-5	PEMA	4035	m	A	U	I	
F-4	PEMA	1433	F	A	U	A	enlarged vulva
E-4	EUMI	4302	F	A	34	I	
E-5	EUMI	3014	m	A	U	D	
D-5	PEMA	3353	F	A	U	D	
[illegible]-4	SPLA	4303	m	A	134	I	
C-4	EUMI	4033	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood Sage Grid A Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (0800) Date, time traps checked 7/26/76 (0100)

Last toe clip # used on previous day 4150/4051 Field Analyst(s) Sanz

Project E3 QA Check bcm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-6	EUMI	3301	m	A	U	I	suffering from exp.
C-6	EUMI	3120	F	A	U	I	" " "
D-6	PEMA	2213	m	A	U	I	
E-6	EUMI	3205	F	A	U	I	
F-6	PEMA	3032	m	A	U	I	
H-5	EUMI	4043	m	A	U	I	
M-6	EUMI	4304	m	A	33	I	suffering from exp.
M-8	PEMA	4305	F	A	17	I	
J-6	EUMI	3035	m	A	U	I	suffering from exp.
J-5	EUMI	3045	F	A	U	I	" " "
I-5	EUMI	4401	m	A	35	I	
H-5	EUMI	0441	F	A	33	I	
J-7	EUMI	3220	F	A	U	I	suffering from exp.
H-7	EUMI	4402	M	A	32	I	

*Key taxonomic characters, physical condition of animal, etc.

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File No: [illegible]

Sheet 3 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood/Sage Grid A Sample Period 8 Trap Night 3

Date, time traps set 7/5/76 (0500) Date, time traps checked 7/6/76 (0500)

Last toe clip # used on previous day 4150/4251 Field Analyst(s) Clark

Project 53 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	Eumi	6400	M	A	U	D	DEAD
A-3	Eumi	4632	F	A	U	I	
A-6	Eumi	4210	F	A	35	I	
A-11	Eumi	4220	F	A	32	I	
A-12	Eumi	6500	M	A	U	D	DEAD
A-13	Eumi	4230	M	A	28	I	
B-13	Eumi	4240	M	A	28	I	
C-13	SPLA	0154	M	A	198	I	
D-13	FUQU	2055	F	A	U	I	
F-13	Eumi	4250	F	A	25	I	
J-13	FUQU	2052	F	A	U	I	
K-13	Eumi	4011	M	A	U	D	DEAD
L-13	Eumi	4310	F	A	26	I	
M-13	Eumi	2315	M	A	U	D	DEAD
M-12	Eumi	4320	F	A	23	I	
L-12	Eumi	6600	M	A	U	D	DEAD
K-12	PEMA	3401	F	A	U	I	
J-12	Eumi	1223	F	A	26	I	
F-12	Eumi	2051	M	A	U	I	exposure
H-12	Eumi	4330	F	A	31	I	
B-11	PEMA	2053	F	J	U	I	
C-11	Eumi	4340	F	A	24	I	
D-11	Eumi	0204	M	A	29	I	
L-11	Eumi	4350	M	A	26	I	exposure
M-10	Eumi	1015	M	A	11	D	DEAD
J-10	PEMA	2213	M	A	U	A	swollen testes
I-10	Eumi	3140	M	A	U	I	
I-9	Eumi	2105	M	A	U	I	exposure
H-9	Eumi	2201	F	A	U	I	
G-12	PEMA	1410	F	A	U	I	
G-9	Eumi	3130	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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File No: 83.C.5.12.14

Sheet 4 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Creasman / Sage Grid A Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (0800) Date, time traps checked 7/26/76 (0800)

Last toe clip # used on previous day 4150/4051 Field Analyst(s) Clark

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
F-9	Eumi	4420	M	A	31	T	
F-10	Eumi	2203	F	A	U	I	exposure
C-10	Eumi	3405	M	A	U	I	"
B-10	Eumi	6700	M	A	U	D	DEAD
B-8	Eumi	4042	M	A	U	I	exposure
D-8	Eumi	4110	M	A	U	T	
F-8	Eumi	4140	M	A	U	I	
G-8	Eumi	3201	M	A	U	T	
G-7	Eumi	3102	M	A	U	T	
H-6	Pcma	4430	F	A	10	I	

* Key taxonomic characteristics, physical condition of animal, etc.

070/060175

File No: 83C3-18.12

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood Sage Grid A Sample Period 8 Trap Night 4

Date, time traps set 7/6/76, 1600 Date, time traps checked 7/7/76, 1600

Last toe clip # used on previous day 4402 Field Analyst(s) Sam

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	EUMI	3240	m	A	U	I	exposure
F-1	EUMI	4202	m	A	U	I	exposure
H-1	EUMI	4403	m	A	33	I	New
L-2	PEMA	3305	F	A	U	D	dead
H-2	EUMI	(1,2)115	m	A	U	I	
D-2	EUMI	1351	F	A	U	I	
R-2	EUMI	4404	m	J	19	I	New
H-3	EUMI	3012	m	A	U	D	
K-4	EUMI	4405	m	A	31	I	New
I-4	EUMI	4205	m	A	U	I	exposure
G-5	EUMI	4031	m	A	U	I	exposure
F-5	PEMA	1533	F	A	U	D	dead
F-[illegible]	EUMI	3041	m	A	U	I	exposure
E-4	EUMI	4110	m	A	U	D	dead
D-5	EUMI	3111	F	A	32	I	exposure New
D-4	EUMI	4302	F	A	U	I	exposure
C-4	EUMI	3205	F	A	U	I	exposure
D-6	EUMI	3013	m	A	U	I	exposure
E-6	EUQU	3112	F	A	52	I	exposure
F-6	EUMI	3203	m	A	U	I	
L-4	EUMI	1415	F	A	U	I	
M-4	EUMI	4044	m	A	U	I	exposure
I-5	EUMI	3113	F	A	34	I	New
H-8	EUQU	3114	m	A	55	I	New
	< 50 %, pull traps on the 28th						

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassmere/Sand Grid A Sample Period 8 Trap Night 11

Date, time traps set 7/26/76 (0900) Date, time traps checked 7/27/76 (0800)

Last toe clip # used on previous day 4402/4430 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-3	EUMI	1413	F	A	U	P	DEAD
A-10	PEMA	4042	F	A	15	A	[illegible]
A-11	EUMI	4220	F	A	U	I	
A-[illegible]	EUMI	0331	M	A	U	D	
A-12	EUMI	4450	F	A	32	I	NEW
B-13	EUMI	2251	M	A	U	I	
C-12	EUMI	2054	F	A	U	D	DEAD
D-12	[illegible]	2411	M	A	28	I	NEW - ON [illegible]
1-[illegible]	[illegible]	2112	F	A	32	I	NEW
E-[illegible]	EUMI	1310	F	A	28	I	[illegible]
M-13	EUMI	2413	F	A	26	I	NEW
J-12	EUMI	2414	F	A	29	I	NEW
[illegible]-12	EUMI	2415	M	A	30	I	NEW
C-11	PEMA	2421	M	A	17	I	NEW
C-[illegible]	PEMA	6900	M	U	U	D	NEW - DEAD, [illegible]
D-11	PEMA	2423	F	A	12	A	[illegible]
M-11	EUMI	1355	F	A	U	D	DEAD
M-10	EUMI	2424	M	A	29	I	NEW - [illegible]
K-10	EUMI	6802	M	A	U	D	DEAD NEW
J-10	EUMI	2401	F	A	U	I	
J-12	EUMI	3140	M	A	U	I	NEW
H-9	EUMI	3150	M	A	U	I	
G-9	EUMI	3201	M	A	U	D	DEAD
F-10	EUMI	0304	M	A	32	I	[illegible]
D-10	SPLA	2425	M	A	146	I	NEW
D-9	PEMA	4130	F	A	U	I	
B-8	EUMI	4425	M	A	U	I	[illegible]
F-7	EUMI	1414	F	A	34	I	
J-7	EUMI	3102	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: [illegible]

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood/Sage Grid A Sample Period 8 Trap Night 5

Date, time traps set 7/22/76 (0800) Date, time traps checked 7/28/76 (0600)

Last toe clip # used on previous day ——— Field Analyst(s) Sam

Project 83 QA Check Lem 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-1	EUMI	4202	M	A	U	I	exposure
H-1	EUMI	3012	m	A	U	I	exposure
J-1	EUMI	3115	m	A	U	I	exposure
K-1	EUMI	4055	m	A	U	D	dead
L-1	EUMI	4102	m	A	U	I	exposure
L-2	EUMI	1415	F	A	U	I	exposure
K-2	PEMA	3121	m	A	19	I	
K-2	PEMA	3122	F	J	12	I	exposure
H-2	SPLA	4014	m	A	U	I	exposure
B-2	EUMI	1115	m	A	U	I	exposure
B-3	EUMI	3123	F	A	29	I	
C-3	EUMI	4404	m	A	U	I	exposure
[illegible]-3	EUMI	3124	m	A	31	I	
H-3	EUMI	3125	F	A	33	I	exposure
K-3	EUMI	3304	m	A	U	I	exposure
K-4	EUMI	3131	F	A	30	I	exposure
H-4	EUMI	3220	F	A	U	I	exposure
G-4	EUMI	1153	m	A	U	I	
C-4	EUMI	4033	m	A	U	D	dead
B-6	EUMI	3132	m	A	29	I	exposure
C-6	PEMA	3032	m	A	U	D	dead
H-5	EUMI	3042	m	A	U	I	
M-6	EUMI	4304	m	A	U	I	exposure
M-8	EUMI	3133	F	A	28	I	exposure
J-6	EUMI	3045	F	A	U	D	dead
J-5	EUMI	3134	m	A	54	I	
I-5	PEMA	2135	m	A	U	I	
F-7	EUMI	3202	m	A	U	I	
D-7	PEMA	3135	F	A	U	D	dead
D-8	PEMA	2103	m	A	U	I	exposure

*Key taxonomic ~~characters~~, physical condition of animal, etc.

RBOSP PROGRESS REPORT

File No: 830.5.1.2.14

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Gracewood/Sage Grid A Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (0900) Date, time traps checked 7/28/76 (0800)

Last toe clip # used on previous day — Field Analyst(s) Claus

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	EUMI	7100	M	A	U	D	DEAD
A-12	PEMA	243	M	A	18	I	
A-10	PEMA	7200	M	A	U	D	DEAD
D-13	EUMI	2415	M	A	U	I	
A-13	EUMI	4450	F	A	U	I	
B-13	EUMI	2041	M	A	U	I	
C-13	EUMI	3350	F	A	U	I	
E-13	EUMI	2430	F	A	32	I	
J-12	SPLA	3440	F	A	U	I	
C-11	EUMI	2414	F	A	U	I	
D-11	EUMI	4310	F	A	U	D	DEAD
H-11	EUMI	2205	F	A	U	I	
M-11	[illegible]	2133	F	A	[illegible]	I	
J-10	PEMA	2423	F	A	U	D	DEAD
I-9	EUMI	1223	F	A	20	I	
I-10	PEMA	2413	M	A	U	D	DEAD
C-10	EUMI	2434	M	A	26	I	

*Key taxonomic characters, physical condition of animal, etc.

PROCESS PROGRESS REPORT

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83 C.5.1.2.15

Grid Name [illegible] Grid # B Project [illegible] Trap Night 01

Date, time traps set [illegible] Date, time traps checked [illegible]

Last toe clip # used on previous day [illegible] Field Analyst(s) [illegible]

Sampling period 8 QA Check bem 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Trap Weight	Reprod. Status	Additional* Notes
K-1	SPLA	[illegible]	F	A	[illegible]	I	—
L-1	PERA	[illegible]	F	A	[illegible]	I	—
M-3	EUHU	[illegible]	F	A	[illegible]	I	—
M-4	EUHU	[illegible]	M	A	[illegible]	I	—
M-6	SPLA	—	M	A	[illegible]	I	[illegible]
M-13	CUMI	[illegible]	M	A	[illegible]	I	[illegible]
L-12	EUHU	[illegible]	M	J	[illegible]	I	—
L-13	SPLA	[illegible]	F	A	[illegible]	I	[illegible]
L-10	CUMI	[illegible]	M	A	[illegible]	I	—
L-8	SUGU	[illegible]	M	J	[illegible]	I	—
L-6	PETR	[illegible]	M	A	[illegible]	I	—
L-4	CUMI	[illegible]	M	A	[illegible]	I	—
L-2	PETR	[illegible]	M	A	[illegible]	I	—
K-4	CUMI	[illegible]	M	A	[illegible]	I	—
K-10	CUMI	[illegible]	M	A	[illegible]	A	[illegible]
J-13	PERA	[illegible]	M	A	[illegible]	I	—
J-12	EUHU	[illegible]	F	A	[illegible]	I	—
J-8	EUHU	[illegible]	M	A	[illegible]	I	—
J-6	PERA	[illegible]	F	J	[illegible]	I	—
J-5	NEOT	[illegible]	F	A	[illegible]	I	—
J-4	SPLA	[illegible]	F	A	[illegible]	I	—
J-3	CUMI	[illegible]	M	A	[illegible]	I	—
J-2	SPLA	[illegible]	M	A	[illegible]	I	—
H-3	PERA	[illegible]	M	A	[illegible]	A	—
H-4	PERA	[illegible]	F	[illegible]	[illegible]	I	—
H-5	PETR	[illegible]	M	A	[illegible]	I	—
H-6	CUMI	[illegible]	M	A	[illegible]	A	[illegible]
H-7	CUMI	[illegible]	F	A	[illegible]	I	—
H-9	PERA	[illegible]	M	A	[illegible]	I	—
H-12	CUMI	[illegible]	M	A	[illegible]	A	[illegible]
F-12	CUMI	[illegible]	[illegible]	[illegible]	[illegible]	A	[illegible]

*Key taxonomic characters, physical condition of animal, etc.

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.215

Grid Name P-J (South) Grid # B Project 83 Trap Night 1

Date, time traps set 7/23/76 (1000) Date, time traps checked 7/24/76 (0800)

Last toe clip # used on previous day 2031 Field Analyst(s) Kestrel

Sampling period 8 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	ANIMAL Trap. Weight	Reprod. Status	Additional* Notes
[illegible]	EUMI	2032M	M	A	U	D	Dead
A-11	PEMA	[illegible]	M	A	19	I	[illegible]
[illegible]	EUMI	[illegible]	F	A	33	I	none
A-10	EUMI	2035	M	A	20	I	none
A-9	EUMI	2030	M	A	U	D	Dead
B-10	[illegible]	[illegible]	F	A	32	I	none
B-4	SPLA	2025M	F	A	156	I	none
B-3	EUMI	2041M	F	A	34	I	none
C-1	EUMI	[illegible]	M	A	31	I	none
C-2	[illegible]	[illegible]	F	1	39	I	none
C-3	[illegible]	[illegible]	M	J	24	I	none
C-4	[illegible]	[illegible]	M	A	32	I	none
C-10	SPLA	2051M	F	A	146	I	none
D-10	PEMA	2050M	M	A	16	I	none
D-11	EUMI	[illegible]	F	A	54	I	none
D-8	EUMI	[illegible]	F	A	32	I	none
E-8	EUMI	0251	M	A	55	I	none
E-10	SPLA	2053M	F	A	168	I	none
E-7	EUMI	[illegible]	M	A	33	I	none
D-7	PEMA	[illegible]	M	A	17	I	none
D-6	SPLA	2055M	M	A	170	I	none
D-5	EUCI	2101M	M	A	U	D	DEAD
D-4	EUMI	[illegible]	F	A	37	I	none
D-2	EUMI	[illegible]	M	A	31	I	none
E-1	EUMI	[illegible]	F	A	34	I	none
F-4	EUCI	2103M	F	A	47	I	none
G-7	PETR	[illegible]	M	A	18	I	none
F-8	PEMA	2105M	M	A	15	I	none
E-9	EUMI	2021	M	A	35	I	none
E-10	PEMA	[illegible]	M	A	22	I	none
E-11	EUMI	2041M	F	A	[illegible]	I	none

*Key taxonomic characters, physical condition of animal, etc.

File No: 83 C 3 12 25

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pt. Tupper Trail Grid B Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1100) Date, time traps checked 7/25/76 (1030)

Last toe clip # used on previous day 2201 Field Analyst(s) Kestrel

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	EUMI	2202.	M	A	29	I	none
A-10	EUMI	2233	F	A	U	I	none
A-11	EUMI	0402	F	A	U	I	none
A-12	EUMI	0042	F	A	U	I	none
A-13	EUMI	2203.	M	A	31	I	none
B-13	SPLA	2204.	M	A	158	I	none
B-12	EUMI	2205.	M	A	33	I	none
B-11	EUMI	0043	M	A	U	I	none
B-10	EUMI	2034	F	A	U	I	none
B-6	EUMI	3005	M	A	33	I	none
B-3	EUMI	2011	F	A	U	I	none
B-1	SPLA	3021.	M	A	153	I	none
C-1	EUMI	3022.	M	A	31	I	none
C-3	SPLA	3223.	F	A	176	I	none
C-10	PEMA	0334	M	A	20	I	none
C-13	EUMI	3024.	F	A	30	I	none
D-13	EUMI	3025.	M	A	35	I	none
D-12	EUMI	3031.	M	A	32	I	none
D-11	EUMI	3032.	M	A	30	I	none
D-9	EUMI	3033.	F	A	31	I	none
D-7	EUMI	3034.	F	A	27	I	none
E-1	SPLA	3035	M	A	U	I	none
D-5	EUMI	2053	M	A	U	I	dead, Pelage poor
E-5	EUMI	0352	M	A	38	I	could be 1252,
E-4	EUMI	3035.	F	A	31	I	none
D-2	EUMI	2043	M	A	U	I	none
D-1	EUMI	0330	F	A	U	Dead	none
F-1	SPLA	0411	F	A	276	A	Preg
F-5	EUMI	0400	F	A	38	A	none
F-6	PEMA	3041.	M	A	16	A	none
F-7	EUMI	3042.	F	A	33	A	none
F-8	EUMI	3043.	M	A	33	A	none
H-8	EUMI	3044.	M	A	31	A	none

Key taxonomic characters, physical condition of animal, etc.

File No: [illegible]

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon-Juniper (Low) Grid B Sample Period 8 Trap Night 2

Date, time traps set 24 July 1976 Clock Date, time traps checked 25 July 1976 (1)

Last toe clip # used on previous day 2430 Field Analyst(s) GAR

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
K-1	SPLA	2402	I	A	U	I	—
L-2	EUQU	2410	F	J	17	I	—
L-1	EUMI	2450	F	A	28	I	—
M-1	SPLA	3011	F	A	15~~8~~ V	D	—
M-13	SPLA	2011	F	A	144	A	pregnant?
L-10	SPLA	2012	M	A	140	I	—
L-6	EUMI	0313	M	A	20	A	descended t. [illegible]
K-6	EUMI	3013	F	A	28	I	—
K-11	PCMA	3014	M	J	12	I	—
J-12	SPLA	2303	F	A	218	A	Pregnant
J-7	EUMI	2011	M	A	30	A	descended testes
J-3	SPLA	2310	I	A	U	I	—
H-3	EUMI	3015	F	A	28	I	—
H-5	SPLA	0132	M	A	U	I	—
H-7	EUMI	2401	I	A	32	I	—
F-12	EUMI	2402	M	A	28	I	—
							50% of all traps at H, I and J 2 with chewed [illegible]

*Key taxonomic ~~characters, physical~~ condition of animal, etc.

RECOP PROGRESS REPORT

Sheet 1 of 2 File No: 83-0-51-2-15

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PIT (South) Grid B Sample Period 8 Trap Night

Date, time traps set 7/25/76 (1015) Date, time traps checked 7/26/76 (0900)

Last toe clip # used on previous day 2243 Field Analyst(s)

Project P3 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A3	EUMI	2041	F	A	U	I	none
A4	EUMI	2202	M	A	U	I	none
A6	EUMI	3045	F	A	31	I	none
B3	EUMI	0103	F	A	34	I	none
B5	EUMI	[illegible]	M	A	U	I	none
B6	EUMI	[illegible]	M	A	31	I	none
B8	SPLA	[illegible]	F	A	U	I	none
B9	SPLA	[illegible]	F	A	154	I	none
C1	SPLA	3053	M	A	153	I	none
C1	EUMI	3054	M	A	32	I	none
C2	EUMI	2043	M	A	U	I	none
C5	SPLA	3055	M	A	128	I	none
C6	LEQU	3101	F	A	441	I	none
C10	EUMI	2031	M	A	U	I	none
C12	EUMI	3102	F	A	36	I	none
C13	EUMI	2041	M	A	29	I	was 2410 changed
D13	EUMI	3103	F	A	34	I	none
D12	EUMI	2034	M	A	U	I	none
D11	EUMI	0043	M	A	U	I	none
D10	EUMI	2205	M	A	U	I	none
E9	EUMI	0313	M	A	U	I	none
D9	PEMA	1144	M	A	U	I	none
D8	EUMI	3005	M	A	U	I	none
E8	NEOT	3104	F	A	U	I	tabinus grossus
E7	EUMI	2302	F	A	33	I	none
D7	EUMI	1103	M	A	34	I	none
E6	PEMA	3107	F	A	17	I	none
E4	PEMA	2220	F	A	U	I	none
D4	EUQU	2103	F	A	U	I	none
D3	EUMI	2102	M	A	U	I	none
E3	PEMA	[illegible]	F	A	U	I	none

*Key taxonomic characters, physical condition of animal, etc.

070/060175

RECEIVED [illegible] REPORT

File No: 83 C 5 1.2 .5

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon-Juniper (South) Grid B Sample Period 3 Trap Night 2

Date, time traps set 26 Jul 1976 (1215) Date, time traps checked 28 Jul 1976

Last toe clip # used on previous day 3402 Field Analyst(s) [illegible]

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
K-4	EUGU	3402	M	J	32	T	—
M-6	PEMA	3204	F	A	17	T	—
L-10	SPLA	4010	F	A	230	A	pregnant
L-6	EUMI	3220	M	A	U	T	recap
K-3	EUMI	3205	M	A	21	T	—
L-2	EUMI	3110	M	A	29	T	—
K-4	EUGU	2220	F	A	U	T	recap
K-6	SPLA	2210	F	A	U	T	recap
K-11	EUGU	3120	F	A	47	T	—
J-3	SPLA	1204	?	A	—	T	escape
J-2	EUMI	3130	M	A	28	D	—
H-2	PETR	3190	F	J	12	D	—
H-3	EUMI	3150	M	A	28	T	—
H-4	PEMA	3220	M	A	17	T	—
H-7	EUMI	3034	F	A	U	T	recap
F-12	SPLA	2051	F	A	U	T	recap
G-5	PEMA	3201	M	A	20	T	—
F-6	EUMI	3202	F	A	36	T	—
F-8	EUMI	3203	M	A	30	T	—
G-9	EUMI	3204	M	A	27	T	—
G-10	SPLA	0133	M	A	219	T	♂ SPLA 0132 of previous trap night found dead and may be 0132
F-10	SPLA	2055	M	A	U	T	—

taxonomic characters, physical condition of animal, etc.

060175

RDOSP PROGRESS REPORT

File No: [illegible]

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ (South) Grid B Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1115) Date, time traps checked 7/27/76 (0815)

Last toe clip # used on previous day [illegible] Field Analyst(s) DCK

Project 93 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	3205	F	A	15	I	new
A2	EUMI	3301	F	A	34	I	new
A4	EUMI	2202	M	A	U	I	—
A8	EUMI	3302	M	A	33	I	new
A10	EUMI	2031	F	A	U	I	—
A11	EUMI	3303	M	A	30	I	new
B12	EUMI	3102	F	A	U	I	—
B11	EUMI	3304	F	A	34	I	new
B6	PEMA	3305	F	J	12	I	new
B4	EUMI	4031	M	A	29	I	new
C1	SPLA	3021	M	A	U	I	—
C2	SPLA	4032	F	A	19	I	new
C3	SPLA	0343	F	A	26.5	A	new (pregnant) pr
C4	EUMI	[illegible]	M	A	39	I	new
C12	EUMI	3045	F	A	U	I	—
D10	EUMI	4034	F	A	31	I	new
D11	EUMI	3031	M	A	U	I	—
D10	EUMI	0402	F	A	U	I	—
E10	EUMI	3402	M	A	U	I	—
D9	EUMI	3032	M	A	U	I	—
E7	EUMI	2033	M	A	U	I	damaged tail
D6	SPLA	2035	M	A	U	I	—
E6	EUMI	2045	M	A	U	I	—
E5	EUMI	3036	F	A	U	I	—
D5	EUMI	0252	M	A	U	I	0252
D4	EUCU	4035	M	A	39	I	new
D2	EUMI	2102	M	A	U	I	—
G4	SPLA	2036	F	A	U	I	—
E3	PEMA	3120	M	A	U	I	—
G6	EUMI	3401	F	A	U	D	—
F4	SPLA	2053	F	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

ROLLUP TO SUMMARY REPORT

070/060175

File No: 83-35-1-3-10

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Prince William Grid F Sample Period 2 Trap Night 4

Date, time traps set (recap) 26 [illegible] (line) Date, time traps checked [illegible]

Last toe clip # used on previous day 3220 Field Analyst(s) GAR

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-7	EUMI	3210	F	A	32	I	NEW
M-8	SPLA	3230	F	A	164	I	NEW
M-13	PEMA	3240	F	A	16	I	NEW
L-12	SPLA	3250	F	A	175	I	NEW
L-6	EUMI	[illegible]	F	A	U	I	recap
L-3	SPLA	2460	M	A	U	I	recap
L-2	EUMI	3310	M	A	30	I	NEW
K-3	SPLA	2330	F	A	U	I	recap (w tom)
K-6	SPLA	2310	F	A	U	I	recap
K-12	EUMI	2054	M	A	U	I	recap
J-11	SPLA	2261	F	A	U	A	recap [illegible]
I-5	EUMI	0[illegible]	F	A	U	I	recap
I-4	EUCI	2405	M	A	U	I	recap
J-3	EUMI	2410	M	A	U	I	recap
J-2	EUMI	0224	F	A	U	I	recap
H-3	EUMI	3320	M	A	32	I	NEW
H-4	EUMI	3015	F	A	U	I	recap
H-7	EUMI	0120	M	A	26	I	recap
H-11	EUMI	2261	F	A	U	I	recap
E-10	EUQU	1221	F	A	50	I	—
E11	SPLA	2050	F	A	139	I	—
F12	PEMA	03(35)4	M	A	U	I	was 0334, realized to 037[illegible] as 2 animals had same T[illegible]
F13	EUMI	2430	M	A	U	I	—
H13	EUMI	0313	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175 RECAP PROGRESS REPORT

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name [illegible] (South) Grid B Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1115) Date, time traps checked 7/28/76 (0915)

Last toe clip # used on previous day 4040 Field Analyst(s) DCK

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	4041	M	A	[illegible]	I	—
A2	SPLA	4042	F	A	159	I	—
A3	EUMI	4043	M	A	29	I	—
A4	EUMI	2202	M	A	U	I	—
A6	SPLA	2035	F	A	U	I	—
A8	EUMI	4044	M	A	U	D	—
A10	EUMI	4045	M	A	29	I	—
A11	EUMI	4051	M	A	31	I	—
B11	SPLA	2055	M	A	U	I	—
B10	EUMI	[illegible]	F	A	U	I	—
B1	EUMI	4052	M	A	31	I	—
B4	EUMI	0302	F	A	U	I	—
B5	EUMI	[illegible]	M	A	U	I	
C1	SPLA	1041	M	A	U	I	—
C2	SPLA	1100	F	A	234	A	preg., conceptus
C4	EUMI	4053	M	A	31	I	—
C10	EUMI	3021	M	A	U	I	—
C11	EUMI	4054	M	A	201	I	—
D11	EUMI	2043	M	A	U	I	—
D10	SPLA	3002	F	A	241	A	preg
D8	EUMI	0031	M	A	U	I	—
E1	EUMI	3102	F	A	U	I	—
E7	SPLA	2051	F	A	U	I	—
E6	EUMI	3015	F	A	U	I	—
E5	EUMI	3012	F	A	U	I	—
D7	EUMI	2013	M	A	U	I	—
E4	EUMI	3023	F	A	U	I	—
D2	SPLA	3021	M	A	U	I	—
D1	EUMI	0153	F	A	U	I	[illegible] 1520
SE4	PEMA	4055	M	J	10	I	—
E4	PEMA	4101	F	J	13	I	—

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

ecology consultant

File No: 83-351-8.12

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Power [illegible] Grid F Sample Period 0 Trap Night 4

Date, time traps set [illegible] Date, time traps checked [illegible]

Last toe clip # used on previous day 3220 Field Analyst(s) CAB

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-7	EUMI	3210	F	A	32	I	NEW
M-8	SPLA	3230	F	A	164	I	NEW
M-13	PEMA	3240	F	A	16	I	NEW
L-12	SPLA	3250	F	A	175	I	NEW
L-6	EUMI	[illegible]	F	A	U	I	recap
L-3	SPLA	2400	M	A	U	I	recap
L-2	EUMI	3310	M	A	30	I	NEW
K-3	SPLA	2330	F	A	U	I	recap (w/ torn
K-6	SPLA	2310	F	A	U	I	recap
K-12	EUMI	2054	M	A	U	I	recap
J-11	SPLA	[illegible]	F	A	U	A	recap - preg
I-5	EUMI	[illegible]	F	A	U	I	recap
I-4	EUCO	[illegible]	M	A	U	I	recap
J-3	EUMI	2410	M	A	U	I	recap
J-2	EUMI	0224	F	A	U	I	recap
H-3	EUMI	3320	M	A	32	I	NEW
H-4	EUMI	3015	F	A	U	I	recap
H-7	EUMI	0120	M	A	26	I	recap
H-11	EUMI	2201	F	A	U	I	recap
E-10	EUQU	1221	F	A	50	I	—
E11	SPLA	2050	F	A	139	I	—
F12	PEMA	03(35)4	M	A	U	I	was 0334, relpaced to 03[illegible] as 2 animals had same [illegible]
F13	EUMI	2430	M	A	U	I	—
H13	EUMI	0313	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175 REVISED PROGRESS REPORT

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name F (South) Grid B Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1115) Date, time traps checked 7/28/76 (0915)

Last toe clip # used on previous day 4040 Field Analyst(s) DCK

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	4041	M	A	23	I	—
A2	SPLA	4042	F	A	159	I	—
A3	EUMI	4043	M	A	29	I	—
A4	EUMI	3202	M	A	U	I	—
A5	SPLA	3203	F	A	U	I	—
A8	EUMI	4044	M	A	U	D	—
A10	EUMI	4045	M	A	29	I	—
A11	EUMI	4051	M	A	31	I	—
B11	SPLA	2055	M	A	U	I	—
B10	EUMI	3041	F	A	U	I	—
B1	EUMI	4052	M	A	31	I	—
B4	EUMI	0302	M	A	U	I	—
B5	EUMI	0301	M	A	U	I	
C1	SPLA	0201	M	A	U	I	—
C2	SPLA	1102	F	A	23	A	preg, carrying 3 embryos
C4	EUMI	4053	M	A	31	I	—
C10	EUMI	3021	M	A	U	I	—
D10	EUMI	4054	M	A	201	I	—
D11	EUMI	2043	M	A	U	I	—
D10	SPLA	3002	F	A	241	A	preg
D8	EUMI	3031	M	A	U	I	—
E5	EUMI	3102	F	A	U	I	—
E7	SPLA	2031	F	A	U	I	—
E6	EUMI	3015	F	A	U	I	—
E8	SUMI	3042	F	A	U	I	—
D7	EUMI	2043	M	A	U	I	—
E4	EUMI	3023	F	A	U	I	—
D2	SPLA	3021	M	A	U	I	—
D1	EUMI	0153	F	A	U	I	[illegible] ba. 1420
SE4	PEMA	4055	M	J	10	I	—
SE4	PEMA	4101	F	J	13	I	—

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

ecology consultant

83.C.5.1.2.15

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ (South) Grid # B Project 8 Trap Night 5

Date, time traps set 7/27/76 (1145) Date, time traps checked 7/28/76 (0915)

Last toe clip # used on previous day 5/0<10 Field Analyst(s) DLC

Project 83 QA Check Mcm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
G5	EUMI	0100	F	A	U	I	—
F5	EUMI	0043	M	A	U	I	—
G6	EUMI	0(12)52	F	A	36	I	—
G7	EUQU	2130	M	A	U	I	—
F8	EUMI	0404	M	A	33	I	—
F9	EUMI	3034	F	A	U	I	—
F10	SPLA	2050	F	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

Sheet 3 of 3 File No: 83-6-02-12

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (small) Grid B Sample Period 8 Trap Night 5

Date, time traps set 27 July 1976 (1140) Date, time traps checked 28 July 1976 (0710)

Last toe clip # used on previous day 2320 Field Analyst(s) GAP

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-1	[illegible]	[illegible]	[illegible]	A	U	I	[illegible]
M-2	EUMI	[illegible]	[illegible]	[illegible]	26	A	[illegible]
M-4	[illegible]	[illegible]	F	A	15	I	-
M-6	SPLA	[illegible]	F	A	U	I	-
M-12	[illegible]	[illegible]	[illegible]	[illegible]	U	I	-
L-6	[illegible]	[illegible]	F	A	U	I	-
L-3	[illegible]	[illegible]	M	A	42	I	-
L-2	[illegible]	[illegible]	M	A	U	I	-
K-11	SPLA	[illegible]	F	A	U	I	-
K-13	EUMI	[illegible]	F	A	U	I	-
J-10	SPLA	[illegible]	F	A	U	I	-
J-1	PEMA	[illegible]	M	A	15	I	-
J-3	SPLA	[illegible]	[illegible]	[illegible]	U	I	-
J-6	SPLA	[illegible]	F	A	U	I	-
I-4	EUMI	[illegible]	F	A	[illegible]	I	-
J-3	EUMI	[illegible]	M	A	U	I	-
J-2	PEMA	[illegible]	F	A	U	I	-
H-2	EUMI	[illegible]	F	A	U	I	-
H-13	PEMA	[illegible]	M	A	U	I	-
F-13	EUMI	[illegible]	M	A	U	A	[illegible]
F-12	EUMI	[illegible]	M	A	26	A	"
F-11	EUMI	[illegible]	F	A	U	I	-

TRAPS FROM LINES "A" & "B" WERE REMOVED.

BUNDLES OF CARCASSES (27 and 20) ARE UNDER BOXES AT J3 and K3

ALL OTHERS WERE REMOVED 7/28/76

*Key taxonomic characters, physical condition of animal, etc.

FIELD PROGRESS REPORT

070/060175

File No: 83 C.3.1.3.16

Sheet 1 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-3 (north) Grid C Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1300) Date, time traps checked 7/24/76 (1300)

Last toe clip # used on previous day 0431 / 2031 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	EUMI	2032	M	A	30	I	
D-1	PEMA	2033	M	A	13	I	
F-1	EUMI	2034	F	A	27	I	
H-1	EUMI	2035	F	A	30	I	
K-1	EUMI	4020	F	A	31	I	
L-1	EUMI	3100	F	A	35	I	
M-1	EUMI	2041	M	A	28	I	
M-3	EUMI	2042	F	A	33	I	
M-4	SOLA	3004	F	A	21	I	
M-6	EUMI	2043	F	J	U	D	
M-8	SOLA	2044	F	A	166	I	
M-10	PEMA	2045	F	A	20	A	
M-13	EUMI	2051	F	A	U	D	
L-12	EUMI	2052	M	A	47	I	
L-10	PEMA	2053	F	A	20	I	
L-4	PEMA	2054	F	A	14	I	
L-3	PEMA	2055	M	A	14	I	
L-2	EUMI	2101	M	A	32	I	
K-2	EUMI	1303	F	A	36	I	
K-3	EUMI	2102	F	J	14	I	
K-4	EUMI	3002	F	A	34	I	
K-13	PEMA	2103	M	J	12	I	
J-11	PEMA	2104	M	J	13	I	
J-9	PEMA	2105	M	J	U	D	
J-9	EUMI	2201	M	J	24	I	
J-7	EUMI	2202	F	A	32	I	
I-7	PEMA	2203	I	A	15	I	
I-6	EUMI	2105	F	A	34	I	
J-5	EUMI	2204	F	A	31	I	
H-5	EUMI	2110	M	A	19	I	
I-5	EUMI	2205	F	A	31	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83 C 5 / 3.11

Sheet 2 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J. (North) Grid C Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1300) Date, time traps checked 7/24/76 (130)

Last toe clip # used on previous day 0431/2031 Field Analyst(s) Sam

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-5	SPLA /	2205	M	A	174	I	
H-8	EUMI /	2250	F	A	32	I	
H-10	PEMA /	2310 /	M	A	22	A	
H-11	PEMA /	2320	F	A	12	I	
H-13	EUQU /	2330	F	A	47	I	
G-10	EUQU /	1101	F	A	58	+	
G-9	SPLA /	2340	F	A	136	I	
G-5	PEMA /	2350 /	M	A	17	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83C5.7.12

Sheet 3 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (North) Grid C Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1350) Date, time traps checked 7/24/76 (1300)

Last toe clip # used on previous day 0431/2031 Field Analyst(s) Clark

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	0423	M	A	13	I	
A-2	PEMA	0441	F	A	14	I	
A-3	EUMI	0432	F	A	40	A	
A-4	SPLA	0433	F	A	156	I	
A-8	EUQU	0434	M	A	46	I	
A-6	EUMI	0435	F	A	30	I	
A-11	EUMI	0304	M	A	32	I	
A-12	EUMI	0442	F	A	31	A	Lactating
A-13	EUMI	0443	F	A	34	I	
B-13	EUQU	0444	F	A	42	I	
B-10	EUMI	0120	F	A	29	A	Lactating
C-2	NEOT	0445	F	A	139	A	swollen vulva
C-4	EUQU	0451	F	A	43	A	
C-6	EUMI	1052	F	A	30	I	
C-10	EUMI	1121	M	A	32	I	
C-11	EUMI	0452	F	A	25	I	
C-12	EUQU	0453	M	A	40	I	
C-13	SPLA	0454	F	A	141	I	
D-10	PEMA	0455	M	J	10	I	
E-9	SPLA	1111	F	A	131	I	
D-8	PEMA	1112	M	A	16	I	
E-8	EUMI	1113	F	A	30	I	
D-7	PEMA	1114	F	A	16	A	Swollen vulva
E-5	PEMA	1115	F	J	9	I	
D-4	EUQU	2403	F	A	50	I	
E-4	EUMI	1200	F	A	35	A	lactating
D-3	EUQU	1122	M	A	46	I	
D-2	EUMI	1123	M	A	28	I	
F-3	EUQU	1124	M	A	44	I	
F-4	PEMA	1125	M	A	12	I	
F-5	PEMA	1131	F	J	11	I	

*Key taxonomic characters, physical condition of animal, etc.

RODENT PROGRESS REPORT

070/060175

File No: 83.0.5.1.2.11

Sheet 4 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (North) Grid C Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1300) Date, time traps checked 7/24/76 (1300)

Last toe clip # used on previous day 0431/2031 Field Analyst(s) Clark

Project 83 QA Check Jun 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional Notes*
F-6	PEMA	1132	M	J	13	I	
F-8	PEMA	1133	M	A	19	I	
F-11	ELEL	1105	M	A	48	I	
F-12	PEMA	1134	M	A	22	I	
F-13	PEMA	1135	F	J	11	I	
G-8	PEMA	1141	M	A	21	I	
G-7	PEMA	1142	M	J	11	I	
G-4	PEMA	1143	M	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175 [illegible] REPORT

ecology consultants, inc.

File No: 83.0.5./2.6

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon-Juniper (N) Grid C Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1200) Date, time traps checked 7/25/76 (1300)

Last toe clip # used on previous day 1253/2350 Field Analyst(s) Emm

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	EUQU	2416	M	A	46	S	
D-1	EUMI	2424	M	A	19	I	
H-1	EUMI	2425	M	A	19	I	
K-1	EUMI	2426	F	A	19	I	
M-1	EUMI	1083	F	A	31	I	
M-3	EUMI	2041	M	A	19	I	
M-6	PETR	2427	F	A	19	I	
M-8	PEMA	2430	F	A	19	I	
M-10	PEMA	2429	F	A	19	I	
L-12	EUQU	2432	M	A	19	I	
L-11	SPLA	2433	M	A	19	I	
L-4	PEMA	2434	F	A	19	I	
L-3	PEMA	2435	M	A	20	I	
L-2	SPLA	3004	F	A	145	I	
K-2	EUMI	2436	F	A	19	I	
K-3	EUMI	3011	M	A	30	I	
K-6	EUMI	2204	F	A	19	I	
K-8	EUQU	1122	M	A	19	I	
K-10	EUMI	3012	M	A	29	I	
K-13	PEMA	3013	F	J	10	I	
J-11	PEMA	3014	F	A	14	I	
I-9	EUMI	2202	F	A	19	I	
J-9	EUMI	2201	M	A	19	I	
J-8	PEMA	3015	M	A	19	I	
I-7	PEMA	2421	F	A	16	I	
I-6	EUMI	1100	F	A	31	I	
H-3	PEMA	3022	M	A	20	I	
G-4	PEMA	3023	F	A	19	A	
G-7	EUMI	3024	M	A	29	I	
H-12	PEMA	2425	F	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83 C 5 L 2 16

Sheet 2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (North) Grid C Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1300) Date, time traps checked 7/25/76 (1300)

Last toe clip # used on previous day 1253/2350 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	M	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	M	[illegible]	[illegible]	[illegible]	
B-12	SPLA	[illegible]	F	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
B-1	PEMA	[illegible]	F	[illegible]	[illegible]	I	
B-2	PEMA	[illegible]	M	[illegible]	[illegible]	[illegible]	
B-4	PEMA	[illegible]	F	[illegible]	[illegible]	I	
B-3	SPLA	[illegible]	I	[illegible]	[illegible]	I	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	
C-3	PEMA	[illegible]	M	[illegible]	[illegible]	I	
C-4	PEMA	[illegible]	M	A	[illegible]	I	
C-6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
C-12	PEMA	[illegible]	M	A	[illegible]	A	[illegible]
C-11	PEMA	[illegible]	M	[illegible]	[illegible]	I	
C-12	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	I	
D-9	SPLA	[illegible]	M	[illegible]	[illegible]	I	escaped
D-10	PEMA	[illegible]	M	[illegible]	[illegible]	I	
E-10	PEMA	[illegible]	F	[illegible]	[illegible]	I	
E-9	PEMA	[illegible]	M	A	[illegible]	D	[illegible]
D-8	PEMA	[illegible]	M	A	[illegible]	I	
E-8	PEMA	[illegible]	I	A	[illegible]	A	[illegible]
D-7	SPLA	[illegible]	F	A	[illegible]	I	
D-6	PEMA	[illegible]	I	A	[illegible]	R	[illegible]
E-6	PEMA	[illegible]	F	A	[illegible]	I	[illegible]
D-11	PEMA	[illegible]	F	[illegible]	[illegible]	I	
D-2	PEMA	[illegible]	F	A	[illegible]	I	[illegible]
E-2	PEMA	[illegible]	F	[illegible]	[illegible]	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 83C5L216

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon-Juniper Grid C Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1200) Date, time traps checked 7/25/76 (1300)

Last toe clip # used on previous day 1253/2350 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-6	PEMA	[illegible]	F	A	46	I	
F-7	PEMA	[illegible]	M	A	32	I	
F-8	PEMA	1141	M	A	41	I	
F-10	PIMA	1344	F	J	10	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83 C 5/3/76

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-T (North) Grid C Sample Period 8 Trap Night 3

Date, time traps set 7/26/76 (1300) Date, time traps checked 7/27/76 (0800)

Last toe clip # used on previous day 1344/3025 Field Analyst(s) CLG

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	1345	F	A	11	I	
A-2	PEMA	0441	F	A	U	I	
A-3	PEMA	0423	F	A	U	D	DEAD
A-4	EUQU	1302	M	A	43	I	exposure
A-11	PEMA	0413	m	A	16	I	
B-13	PEMA	1351	m	A	13	I	
B-12	EUQU	0453	m	A	U	I	exposure
B-10	EUMI	1304	m	A	U	I	
B-6	EUQU	1350	F	A	48	I	exposure
B-3	EUMI	1123	m	A	U	I	
B-2	EUMI	2032	m	A	U	I	
B-1	EUMI	1121	m	A	31	I	
C-1	EUMI	1353	F	A	27	I	
C-2	EUMI	1315	m	A	U	I	
C-3	EUQU	2110	M	A	42	I	
C-4	PEMA	1354	m	A	16	I	
C-6	EUMI	1355	m	A	30	I	
C-10	EUMI	1411	m	A	27	I	
C-11	EUMI	1314	F	A	U	I	
C-12	EUMI	1332	m	A	U	I	
D-13	EUMI	1410	F	A	34	I	
D-12	EUMI	0120	m	A	30	I	
D-10	EUMI	1311	m	A	U	I	
E-9	EUMI	0115	m	A	34	I	
D-9	PEMA	1413	F	A	20	A	enlarged nipples
D-8	EUMI	1111	F	A	U	I	
D-7	PEMA	1410	F	A	14	I	
D-6	PEMA	1415	F	A	17	I	
D-6	PEMA	1402	m	A	16	I	
D-5	SPLA	0423	F	A	U	I	
D-2	EUMI	2034	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83-C-3-1-3-16

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-T (North) Grid C Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1200) Date, time traps checked 7/26/76 (1200)

Last toe clip # used on previous day 1344/3035 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-1	FUMI	1422	F	A	28	I	
F-1	FUMI	1423	F	A	29	I	
F-4	FUMI	1032	F	A	30	I	
G-4	SPLA	2340	F	A	U	I	
G-5	PEMA	1124	M	U	U	I	
G-7	PEMA	1424	F	A	14	A	ind vulva
F-7	PEMA	1332	F	A	U	I	
E-8	PEMA	1141	M	A	U	I	
G-8	EUQU	2104	M	A	U	I	
E-9	FUMI	2250	F	A	U	I	
E-10	PEMA	1425	M	J	11	I	
F-13	EUQU	1431	F	A	41	I	
H-10	PEMA	3131	F	J-A	13	I	
I-9	FUMI	1313	M	A	30	I	
H-9	PEMA	3014	F	A	U	I	
I-8	PEMA	3025	F	A	U	I	
I-7	EUQU	3132	F	A-J	39	I	
H-6	EUQU	3133	F	J-A	29	I	
I-6	FUMI	2204	F	A	U	I	
H-5	EUQU	1122	M	A	43	I	
H-3	FUMI	2035	F	A	U	I	
H-2	PEMA	2230	M	A	22	I	
J-9	PEMA	1432	M	J	9	I	
J-10	FUMI	2201	M	A	23	I	
K-6	PEMA	1432	F	J	9	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83.C.5.1.2.16

Sheet 3 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (north) Grid C Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1300) Date, time traps checked 7/26/76 (1300)

Toe clip # used on previous day 3241 / 3275 Field Analyst(s) [illegible]

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-1	EUMI	3031	F	A	33	I	
M-8	PEMA	3032	F	A	18	I	
M-10	PEMA	3033	F	A	17	I	
L-13	PEMA	3034	M	A	13	I	
L-11	PEMA	3035	M	J	10	I	
L-10	PETR	3041	M	J	U	D	
L-4	SPLA	3004	F	A	U	J	
L-3	PEMA	1245	M	A	U	I	
L-2	EUMI	2202	F	A	U	J	
K-1	EUMI	3042	U	A	33	I	
K-3	SPLA	2205	M	A	U	J	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

BIOP PROGRESS REPORT

File No: [illegible]

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name RS (North) Grid C Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1300) Date, time traps checked 7/27/76 (1300)

Last toe clip # used on previous day 1423 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A 1	PEMA	1434	M	A	24	I	NEW
A 2	PEMA	1124	M	A	U	I	
A-8	PEMA	0405	F	A	35	I	
A 10	SOLA	1111	F	A	U	I	
A 11	PEMA	1435	M	A	27	I	NEW
B-12	[illegible]	1401	F	A	14	I	NEW
B-11	PEMA	0422	M	A	23	I	
B-10	[illegible]	0333	F	A	32	I	
C 1	PEMA	1442	M	A	30	I	NEW
C 3	PEMA	1315	M	A	U	I	
C-4	SOLA	0433	F	A	U	I	
C 5	PEMA	0434	M	A	U	I	
C-6	PEMA	1443	F	A	18	I	NEW
C-12	PEMA	1332	M	A	U	I	
D-13	PEMA	1404	F	A	15	R	NEW-lact.
D-1	PEMA	0120	F	A	30	I	
D-4	PEMA	1415	M	A	U	I	
D-5	PEMA	1114	F	A	U	I	
D-7	PEMA	1121	M	A	U	D	DEAD
D-6	PEMA	1115	F	J	U	I	
E-5	PEMA	1355	M	A	U	I	
E-6	PEMA	1405	M	A	32	I	NEW
D-9	PEMA	1032	F	A	27	I	
E-1	PEMA	0235	M	A	26	I	
E-4	PEMA	2035	F	A	26	I	
G-4	PEMA	1413	M	A	U	I	
G-7	PEMA	1451	F	A	U	D	DEAD - NEW
G-10	PEMA	1311	M	A	U	I	
E-13	PEMA	1452	M	A	U	D	NEW DEAD
H-12	PEMA	2250	F	A	U	I	
H-10	PEMA	1313	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

RBCSP PROGRESS REPORT

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J (North Grid C Sample Period 6 Trap Night 4

Date, time traps set 7/26/76 (1300) Date, time traps checked 7/27/76 (1300)

Last toe clip # used on previous day 1433 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-9	PEMA	1314	F	A	14	T	
I-8	EUMI	1017	M	A	29	T	
H-7	EUMI	1122	M	A	U	T	
H-7	EUMI	3133	F	A	U	T	
I-7	PEMA	1453	F	A	19	A	Slight preg.
H-5	PEMA	410	M	A	14	T	
I-4	EUMI	2204	F	A	U	T	
H-2	EUMI	1423	F	A	U	T	
I-3	SPLA	3004	F	A	19	T	
I-2	PEMA	1450	F	A	19	A	preg. NEW
J-11	PEMA	1455	M	A	14	T	NEW
K-11	PEMA	1433	F	T	U	T	
K-10	PEMA	2113	M	A	19	T	NEW
K-6	PEMA	2113	M	A	14	T	NEW
K-4	PEMA	2055	M	A	U	T	
K-3	PEMA	1245	M	A	16	T	Swollen testes
K-2	EUMI	3042	M	A	U	T	
K-1	PEMA	2114	M	J	12	T	NEW
K-1	PEMA	2115	F	T	12	T	NEW
L-1	EUMI	3130	F	A	31	T	
L-2	EUMI	2202	F	A	U	T	
	< 50%, close traps the 28th.						

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

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File No: 83-C-5-1-2-16

Sheet 3 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon-Juniper (II) Grid C Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1300) Date, time traps checked 7/27/76 (1300)

Last toe clip # used on previous day 3042 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-1	SPLA	3043	m	A	138	I	New
M-8	EUMI	3011	m	A	U	I	
M-10	PEMA	3033	F	A	U	D	dead
M-12	PEMA	1433	m	A	U	I	
L-11	PEMA	2430	F	A	U	I	
L-4	PEMA	3044	m	A	20	I	New
L-3	EUMI	2121	m	A	28	I	New

*Key taxonomic characters, physical condition of animal, etc.

070/060175

070/060173

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PI (North) Grid C Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1300) Date, time traps checked 7/28/76 (1300)

Last toe clip # used on previous day 2122/3044 Field Analyst(s) Sumi

Project E3 QA Check Sumi 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	EUMI	0421	m	A	U	A	
F-1	EUMI	0235	m	A	U	I	
K-1	EUMI	1243	F	A	U	I	
K-2	PEMA	1245	m	A	U	D	dead
K-2	PEMA	2115	F	J	U	D	dead
L-1	EUMI	3500	F	A	U	I	
M-1	EUMI	3045	F	A	30	I	
M-3	EUMI	2042	F	A	U	I	
M-6	SPLA	3004	F	A	U	I	
M-8	PEMA	3023	F	A	U	A	
M-8	PEMA	3051	m	A	12	I	
M-10	PEMA	2045	F	A	U	I	
M-12	PEMA	3052	m	A	U	D	dead
M-13	PEMA	3053	m	A	19	I	
L-11	PETR	3054	F	A	24	A	pregnant (brought in exposure
L-4	EUMI	3011	m	A	U	I	
L-3	EUMI	2021	F	A	U	I	
K-3	EUMI	3055	m	A	52	I	
K-4	EUMI	2204	F	A	U	I	
K-6	EUMI	3002	m	A	U	I	
J-12	SPLA	2340	F	A	U	I	
I-10	PEMA	1454	F	A	U	A	
J-9	PEMA	3101	m	A	17	I	
J-9	PEMA	3102	F	J	11	I	
I-8	PEMA	3021	F	A	U	I	
I-7	PEMA	1453	F	A	U	D	dead
J-7	EUMI	2202	F	A	U	I	
I-6	EUMI	2201	m	A	U	I	
I-4	PEMA	2404	F	A	U	A	
H-9	PEMA	2320	F	A	U	I	
H-10	PEMA	3114	F	A	U	D	dead
H-11	EUMI	2104	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: S3.C.5 [illegible]

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/North Grid C Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1300) Date, time traps checked 7/28/76 (1300)

Last toe clip # used on previous day 2122/3044 Field Analyst(s) Clark

Project S3 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	1353	F	A	U	I	
A-2	EuQu	2123	F	A	40	I	N
A-3	EuQu	1124	m	A	42	I	
A-4	Eumi	1354	m	A	U	I	
A-6	PEMA	2124	m	A	14	I	N
A-8	EuQu	2125	m	A	41	I	N
A-11	Eumi	0435	F	A	u	I	
A-3	Eumi	2131	m	A	30	I	N
B-12	PEMA	2132	F	A	15	I	N
B-10	Eumi	2133	m	A	28	I	N
B-13	Eumi	1411	m	A	U	I	
B-8	Eumi	0313	F	A	32	I	
C-11	Eumi	1314	F	A	U	I	
C-12	PEMA	2134	m	J	10	I	NEW
D-13	EuQu	2135	M	A	45	I	NEW
D-12	PEMA	1135	F	A	U	D	DEAD
D-11	[illegible]	1142	m	A	U	D	"
D-10	PEMA	1425	M	J	U	I	ex possum
D-6	EuQu	0451	F	A	u	I	
D-7	Eumi	1113	F	A	u	I	
E-5	Eumi	2141	m	A	28	I	N
E-4	Eumi	1123	M	A	U	I	
D-2	Eumi	1422	F	A	u	I	
F-4	Eumi	1445	m	A	U	I	
F-7	PEMA	3032	F	A	U	I	
F-8	Eumi	1332	F	A	U	I	
F-9	PEMA	2430	F	A	u	I	
F-10	Eumi	1313	m	A	U	I	
F-13	EuQu	2330	F	A	u	I	
G-8	PEMA	0142	m	J	9	I	
G-7	Eumi	0414	RF	A	U	RA	
G-5	Eumi	2035	F	A	"	I	
G-4	PEMA	1125	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

RODENT PROCESS REPORT

070/060175

070/060175

Sheet 1 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83C 5.1.2.17

Grid Name Sycamore Grid # D Project 82 Trap Night 1

Date, time traps set 23 Sept 1976 (1725) Date, time traps checked 24 Sept 1976 (16

Last toe clip # used on previous day — Field Analyst(s) GAE / DEK

Sample period 8 QA Check Lynn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
M-2	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	A	[illegible]
L-1	PEMA	[illegible]	[illegible]	[illegible]	17	I	
L-2	PEMA	[illegible]	[illegible]	A	[illegible]	A	[illegible]
M-1	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]
M-11	PEMA	[illegible]	[illegible]	A	[illegible]	A	[illegible]
M-12	EUHA	[illegible]	F	A	[illegible]	I	[illegible]
L-12	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]
L-10	PEMA	0202	F	A	14	I	[illegible]
L-8	EUHA	[illegible]	M	A	[illegible]	I	[illegible]
L-6	PEMA	[illegible]	[illegible]	J	11	I	[illegible]
L-4	EUHA	1421	F	A	[illegible]	I	[illegible]
L-3	PEMA	[illegible]	M	[illegible]	[illegible]	I	[illegible]
K-9	EUHA	[illegible]	M	A	[illegible]	A	[illegible]
K-8	EUHA	[illegible]	F	A	[illegible]	I	[illegible]
K-10	EUHA	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]
K-11	EUHA	[illegible]	[illegible]	A	[illegible]	I	[illegible]
K-12	EUHA	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]
K-13	EUHA	1245	F	A	[illegible]	I	[illegible]
J-9	PEMA	[illegible]	[illegible]	J	[illegible]	I	[illegible]
J-8	PEMA	[illegible]	F	[illegible]	[illegible]	D	[illegible]
J-7	EUHA	[illegible]	F	A	[illegible]	I	[illegible]
J-6	PEMA	[illegible]	F	A	[illegible]	A	[illegible]
I-5	PEMA	[illegible]	F	A	[illegible]	A	[illegible]
I-4	EUHA	[illegible]	M	J	[illegible]	I	[illegible]
J-4	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	A	[illegible]
J-2	EUHA	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]
J-1	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
G-5	EUHA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B-3	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B-2	EUHA	[illegible]	[illegible]	A	[illegible]	I	[illegible]
B-1	EUHA	[illegible]	[illegible]	J	[illegible]	I	[illegible]

*Key taxonomic characters, physical condition of animal, etc.

[illegible]

Sheet 2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 83.C.5.1.2.17

Grid Name Sagebrush Grid # D Project 83 Trap Night 1

Date, time traps set 7/23/76 (1330) Date, time traps checked 7/24/76 (1100)

Last toe clip # used on previous day 1122 Field Analyst(s) [illegible]

Sample period 8 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
H 1	PEMA	1132N	M	J	13	I	none
F-1	PEMA	1124M	M	A	16	I	none
F 3	PEMA	1125N	F	A	18	I	none
H 4	EUMI	1131N	F	A	37	I	none
G 4	EUMI	1132N	F	A	32	I	none
F-5	PEMA	1133N	F	J	14	I	none
G 5	EUMI	1134N	F	A	30	I	none
E 7	EUMI	1134M	F	A	33	I	none
G 7	EUMI	[illegible]	M	A	35	I	none
H-8	PEMA	1135M	M	J	11	I	none
E-9	PEMA	1141M	F	A	19	A	lactating
H-9	PEMA	1142N	F	J	11	A	none
E-10	PEMA	1143N	M	J	10	I	none
E-11	EUMI	1144N	F	A	[illegible]	I	none
H-11	PEMA	1145N	M	J	12	I	none
H-13	EUMI	1151N	M	A	30	I	none
E-13	PEMA	1152N	F	A	18	I	none
E-13	PEMA	1153M	M	J	9	I	none
D-13	PEMA	1154M	F	J	13	I	none
D-11	PEMA	1211N	F	A	-V	D	dead
D-10	EUMI	1212N	F	A	[illegible]	I	none
E-8	EUMI	[illegible]	M	A	28	I	none
D-6	EUMI	[illegible]	F	A	29	I	none
D-5	EUMI	1102	F	A	33	I	none
C-1	PEMA	[illegible]	F	J	11	I	none
C-2	EUMI	[illegible]	M	A	29	I	none
C-4	EUMI	[illegible]	M	A	28	I	none
C-6	EUMI	[illegible]	F	A	35	I	none
C-10	EUMI	[illegible]	M	A	38	I	none
C-13	EUMI	[illegible]	M	A	24	I	none
A-13	PEMA	[illegible]	F	J	12	D	none

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 3 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.17

Grid Name [illegible] Grid # D Project [illegible] Trap Night 1

Date, time traps set 7/23/76 (1330) Date, time traps checked 7/24/76 (0745)

Last toe clip # used on previous day [illegible] Field Analyst(s) [illegible]

Sample Period 8 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
B-10	EUMI	[illegible]	F	A	34	T	[illegible]
A-10	PEMA	[illegible]	M	A	[illegible]	T	[illegible]
B-10	PEMA	[illegible]	F	A	[illegible]	T	[illegible]
B-8	SPLA	[illegible]	F	A	[illegible]	T	[illegible]
A-6	SPLA	[illegible]	M	A	—	T	[illegible]
B-6	SPLA	[illegible]	M	A	[illegible]	T	[illegible]
A-4	EUMI	[illegible]	F	A	[illegible]	T	[illegible]
A-3	EUMI	[illegible]	F	A	[illegible]	T	[illegible]
A-2	SPLA	[illegible]	F	A	[illegible]	T	[illegible]
A-1	PEMA	[illegible]	M	A	[illegible]	T	[illegible]

*Key taxonomic characters, physical condition of animal, etc.

Sheet 1 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.C.51.3.17

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1700) Date, time traps checked 7/25/76 (0700)

Last toe clip # used on previous day 1431 Field Analyst(s) Kestrel

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F2	PEMA	1432	M	A	D	I	none
D1	PEMA	0053	M	A	16	I	none
E3	PEMA	1433	M	J	12	I	none
C-4	EUMI	1434	F	A	34	I	none
E-5	PEMA	1435	F	A	15	I	none
F-6	PEMA	1441	M	A	18	I	none
C-6	EUMI	0352	F	A	16	I	none
C-7	EUMI	1134	F	A	U	I	none
E-7	EUMI	0030	M	A	33	I	none
C-9	EUMI	1101	F	A	34	I	none
E-9	PEMA	1442	M	A	16	I	none
F-10	EUMI	1144	F	A	U	I	none
C-10	PEMA	1411	F	A	U	I	lact
F-11	EUMI	1223	F	A	U	I	none
F13	SPLA	1443	M	A	144	I	none
D12	PEMA	0335	M	A	16	I	poor toe clip
D11	EUMI	1005	M	A	U	I	none
D10	EUMI	1134	F	A	U	I	none
E10	EUMI	0053	M	A	35	I	was 0053 – replaced 115
D6	PEMA	1444	M	A	18	I	none
E6	EUMI	0305	F	A	37	I	none
E5	PEMA	1445	F	J	10	I	none
D5	PEMA	1446	F	A	16	I	none
E4	EUMI	1451	F	A	35	I	none
C1	PEMA	1452	M	J	12	I	none
C2	PEMA	1453	F	J	12	I	none
C6	EUMI	1211	F	A	U	I	none
C8	PEMA	1454	M	J	12	I	none
C11	PEMA	1455	F	J	13	I	none
C10	EUMI	0111	F	A	34	I	none
C13	EUMI	0116	F	A	32	I	none

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

070/060175

Sheet 2 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name [illegible] Grid D Sample Period 8 Trap Night 2

Date, time traps set 24 Jul. 1976 (1700) Date, time traps checked 25 Jul. 1976 (0700)

Last toe clip # used on previous day 1321 Field Analyst(s) CAK

Project 93 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional Notes*
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1322	M	J	17	T	
[illegible]	[illegible]	1342	F	A	U	T	
[illegible]	[illegible]	[illegible]	[illegible]	A	[illegible]	T	
[illegible]	[illegible]	1325	F	A	18	T	
[illegible]	[illegible]	1331	F	A	30	T	
L-4	[illegible]	1322	F	A	29	T	
[illegible]	[illegible]	1333	M	J	26	T	
[illegible]	[illegible]	0102	M	A	19	T	
K-2	[illegible]	1317	M	A	U	T	
K-8	[illegible]	1304	F	J	26	T	
K-10	[illegible]	1315	M	J	17	T	
[illegible]	[illegible]	1314	[illegible]	A	U	T	
[illegible]	[illegible]	1311	[illegible]	A	U	T	
I-9	[illegible]	1341	F	A	17	T	
J-9	PEMA	1331	F	J	U	T	
J-8	[illegible]	[illegible]	M	A	23	A	
J-7	CUMI	1342	M	J	26	T	
J-6	PEMA	1352	F	A	U	T	
J-5	CUMI	1321	F	A	U	T	
I-5	CUMI	1355	M	J	U	T	
I-4	PEMA	1343	M	A	15	T	
J-4	PEMA	1341	M	A	16	T	
I-4	PEMA	1311	M	J	12	T	
J-3	PEMA	1345	M	J	11	T	
H-1	PEMA	1351	U	J	U	T	
H-2	CUMI	1352	F	A	22	T	
[illegible]	[illegible]	1353	M	A	16	T	
H-4	PEMA	1334	M	J	12	T	
H-4	PEMA	1354	F	J	12	T	
H-4	[illegible]	1355	M	A	22	A	

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 2 of 4 File No: [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Toothbrush Grid B Sample Period 8 Trap Night 3

Date, time traps set 21 July 1976 (176) Date, time traps checked 25 July 1976 (180)

Last toe clip # used on previous day — Field Analyst(s) GAP

Project 82 QA Check Jum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-9	PEMA	0375	M	A	16	A	
B-9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
H-11	PEMA	1411	F	J	10	F	
H-12	PEMA	1412	F	J	10	F	
H-13	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
B-7	SUMI	1419	M	A	27	T	
B-1	SUMI	0450	F	A	27	T	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83C51.2.17

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 2

Date, time traps set 7/24/86 (1100) Date, time traps checked 7/25/86 (1[illegible])

Last toe clip # used on previous day 3112 Field Analyst(s) [illegible]

Project 83 QA Check [illegible] 8-3-86

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B1	EUMI	0211	M	A	33	I	none
A1	SPLA	2113	F	A	139	I	none
B1	PEMA	[illegible]	M	A	U	I	none
B4	PEMA	0151	M	A	18	I	clipped to 0151
A4	EUMI	0114	M	A	[illegible]	A	
A3	PEMA	1314	F	A	U	I	none
A3	EUMI	1122	F	A	U	I	none
A1	PEMA	0153	F	A	16	I	none

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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Sheet 1 of 3 File No: 83 [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Tinnabruch Grid D Sample Period 8 Trap Night 3

Date, time traps set 25 July 1976 (1:55) Date, time traps checked 26 July 1976 (1[illegible]

Last toe clip # used on previous day 1414 Field Analyst(s) GAR U

Project 83 QA Check Arm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-2	PEMA	2011	F	J	13	I	—
M-3	PEMA	2012	F	J	13	I	—
M-9	EUMI	1251	F	A	U	I	very
M-11	EUMI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M-12	EUMI	1111	F	A	U	I	very
M-13	PEMA	2301	M	J	11	I	—
L-10	PEMA	0[illegible]	M	A	18	I	—
L-8	EUMI	1241	F	A	U	I	very
L-6	EUMI	1213	F	A	U	I	very
K-10	EUMI	0210	F	A	U	I	very
K-11	EUMI	1242	[illegible]	A	U	I	very
J-9	PEMA	2302	F	J	9	I	—
J-8	PEMA	[illegible]	[illegible]	J	10	I	—
J-8	EUMI	[illegible]	M	A	U	I	—
J-6	EUMI	1252	F	A	U	I	very
J-6	PEMA	2302	F	A	16	D	—
J-4	EUMI	0214	M	A	30	A	—
J-1	PEMA	[illegible]11	F	A	15	A	—
A-5	PEMA	[illegible]	F	A	16	I	—
A-2	EUMI	2245	[illegible]	A	30	I	—
B-1	PEMA	2301	F	[illegible]	[illegible]	[illegible]	—
C-3	EUMI	1250	M	[illegible]	[illegible]	[illegible]	—
C-2	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C-1	PEMA	1262	M	[illegible]	11	I	[illegible]
I-2	PEMA	[illegible]	[illegible]	[illegible]	U	I	very
I-1	PEMA	[illegible]	M	J	12	I	—
J-1	PEMA	[illegible]	M	[illegible]	[illegible]	I	—
H-1	EUMI	[illegible]	F	[illegible]	[illegible]	I	[illegible]
H-2	PEMA	[illegible]	F	I	9	I	—
H-3	PEMA	[illegible]	F	A	16	I	—
[illegible]	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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Sheet 2 of 3 File No:

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1925) Date, time traps checked 7/26/76 (1500)

Last toe clip # used on previous day 2114 Field Analyst(s) Kestrel

Project 83 QA Check brm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F2	PEMA	2115	M	A	15	T	—
F1	EUMI	1215	M	A	U	I	—
D1	PEMA	0253	M	A	U	I	—
E3	PEMA	2121	F	J	12	I	—
G4	EUMI	14341	F	A	U	I	—
G5	EUMI	1215	M	A	U	I	—
E5	EUMI	1132	F	A	U	I	
F6	PEMA	2122	F	J	14	I	—
G6	PEMA	2123	M	J	10	I	—
G7	EUMI	0122	F	A	25	I	—
F7	EUMI	2100	F	A	23	I	—
E8	EUMI	1131	F	A	U	I	—
F8	PEMA	2124	M	J	13	I	—
G9	PEMA	11-12	M	J	U	I	—
E9	PEMA	11-11	F	A	U	A	lac
F9	EUMI	2111	F	A	U	I	—
G10	PEMA	1135	M	A	U	I	—
E12	PEMA	1154	F	A	U	I	—
D12	EUMI	2125	F	A	34	I	—
D11	EUMI	1123	F	A	U	I	—
D8	PEMA	2131	M	J	10	I	—
E7	PEMA	2132	M	J	10	I	—
D7	PEMA	2133	M	J	14	I	—
D6	EUMI	0135	F	A	U	I	—
E6	PEMA	2134	M	SA	12	I	—
E5	EUMI	1134	F	A	U	I	—
A10	PEMA	2135	F	J	15	I	—
B13	PEMA	2141	M	A	U	D	—
C13	EUMI	1221	M	A	U	I	—
C12	PEMA	2142	F	A	13	I	—
C10	PEMA	2143	F	A	14	I	—

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD [illegible] SHEET

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1905) Date, time traps checked 7/26/76 (1[illegible])

Last toe clip # used on previous day _____ Field Analyst(s) SAR, TDC K

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
[illegible]	[illegible]		F	J	12	I	—
H-7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	PEMA	[illegible]	M	[illegible]	15	I	—
C 8	PEMA	2144	M	A	15	I	—
B6	PEMA	2151	M	A	14	I	—
B4	PEMA	2145	F	J	11	I	—

*Key taxonomic characters, physical condition of animal, etc.

[illegible] PROCESS REPORT

070/060175

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070/060175

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name Seabrisk Grid D Sample Period 8 Trap Night 21

Date, time traps set 7/26/76 (1500) Date, time traps checked 7/27/76 (1430)

Last toe clip # used on previous day 2151 Field Analyst(s) DCK

Project 83 QA Check Linn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E2	SPLA	2152	F	A	U	I	new
D1	EUMI	0455	F	A	31	I	closed t. 1 (14/55
D2	SPLA	2153	F	A	21	I	new
G1	EUMI	0422	F	A	U	I	—
E1	EUMI	1122	F	A	U	I	—
E5	EUMI	1134	F	A	U	I	—
G7	PEMA	2154	M	A	14	I	new
E7	PEMA	2124	M	A	U	I	—
E8	PEMA	2155	M	A	15	I	new
G8	PEMA	2013	F	A	20	A	lactating new
G9	PEMA	1442	M	A	U	I	—
E9	EUMI	2111	F	A	U	I	—
E10	PEMA	1335	M	A	U	I	—
E12	EUMI	1141	F	A	U	I	—
D11	EUMI	3050	M	A	[illegible]	I	—
D10	PEMA	2014	F	J	11	I	new
D8	EUMI	1121	F	A	U	I	—
E7	PEMA	2131	M	A	U	I	—
D7	EUMI	0440	M	A	U	I	—
D6	EUMI	1211	F	A	U	I	—
E6	EUMI	1132	F	A	U	I	—
E5	EUMI	1131	F	A	U	I	—
E4	PEMA	1145H	M	A	16	I	was in [illegible] 2 animals had [illegible]
C4	PEMA	1133	M	A	U	D	—
C4	PEMA	1314	F	A	U	I	—
C2	EUMI	1315	M	A	U	I	—
C1	EUMI	1321	F	A	U	I	—
B1	PEMA	2015	F	J	12	I	new
B1	PEMA	0332	M	A	U	I	—
B3	PEMA	2021	F	J	11	I	new
B4	PEMA	2151	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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Sheet 2 of 3 File No: 83.0.3.1.3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 4

Date, time traps set 26 July 1976 (1800) Date, time traps checked 27 July 1976 (1145)

Last toe clip # used on previous day 2120 Field Analyst(s) GAR

Project 83 QA Check Jun 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-2	PEMA	2130	M	J	10	T	NEW
M-11	PEMA	2[illegible]	F	J	9	I	NEW
M-12	EUMI	13[illegible]	M	A	U	T	—
L-3	EUMI	[illegible]	M	A	26	A	NEW
L-12	EUMI	1242	F	A	U	I	—
L-10	PEMA	6014	U	A	15	U	—
L-8	EUMI	1241	F	A	U	I	—
L-4	EUMI	1331	F	A	U	I	—
L-3	EUMI	1131	F	A	U	I	—
L-1	EUMI	13[illegible]	M	A	U	I	—
K-6	PEMA	7210	F	A	14	I	NEW
K-8	PEMA	2220	M	J	12	I	NEW
K-10	PEMA	2230	M	J	8	I	NEW
K-11	EUMI	1334	F	A	U	T	—
K-13	EUMI	1241	F	A	U	T	—
J-13	EUMI	1151	M	A	U	T	—
J-11	EUMI	0132	F	A	U	I	—
J-10	EUMI	1242	F	A	U	I	—
J-9	PEMA	2240	F	J	10	I	NEW
J-8	EUMI	1342	M	A	U	I	in trap
I-8	PEMA	2250	F	A	14	I	NEW
I-7	PEMA	1221	M	A	U	I	—
J-6	PEMA	1252	F	A	U	I	—
I-6	PEMA	[illegible]	M	A	15	I	—
I-6	PEMA	[illegible]	F	A	16	T	—
I-5	PEMA	[illegible]	M	J	12	I	NEW
I-4	PEMA	[illegible]	F	A	U	I	—
J-5	EUMI	0012	M	A	U	I	—
J-2	EUMI	1210	M	A	U	I	—
H-1	PEMA	[illegible]	F	A	11	A	NEW
H-2	PEMA		M	J	11	I	NEW

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

3 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.17

Grid Name Sagebrush Grid # D Project 83 Trap Night 4

Date, time traps set 21 Jul 1976 (8:00) Date, time traps checked 22 Jul 1976 (6:...

Last toe clip # used on previous day 2151 Field Analyst(s) [illegible] DCK

QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
H-3	EUMI	1451	F	A	U	I	—
H 4	EUMI	1205	M	A	26	I	—
H-8	PEMA	0225	M	A	U	I	—
H-9	EUMI	2350	M	A	29	I	NEW
H-10	PEMA	2110	F	A	16	I	NEW
H-11	EUMI	2170	F	A	26	I	NEW
E-10	EUMI	1221	F	A	30	I	—
F-11	SPLA	2050	F	A	139	I	—
F-12	PEMA	03(35)4	M	A	U	I	Was 0354 caught in 03(35)4 but lost tail and TC
F-13	EUMI	2420	M	A	U	I	—
H-13	EUMI	0213	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

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Sht 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD [illegible] SHEET

Grid Name Sagebrush Grid D Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1630) Date, time traps checked 7/28/76 (1530)

Last toe clip # used on previous day 2002 Field Analyst(s) DCK

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F2	PEMA	2330	F	A	U	I	—
D1	EUMI	2023	F	A	32	I	—
D2	EUMI	1315	M	A	U	I	—
G4	EUMI	1132	F	A	U	I	—
F5	PEMA	1145	M	A	U	I	—
G6	EUMI	1122	F	A	U	I	—
G7	PEMA	2021	F	J	11	I	—
F7	SPLA	4114	M	A	U	D	—
G8	PEMA	2013	F	A	U	I	—
G9	PEMA	0235	M	A	U	I	—
F9	EUMI	1121	F	A	U	I	—
G10	PEMA	1335	M	A	U	I	—
F11	EUMI	1223	F	A	U	I	
F12	EUMI	1141	F		U	I	—
D12	PEMA	0414	M	A	16	I	Killed because [illegible]
D11	EUMI	3111	F	A	U	I	—
D10	EUMI	2025	F	A	32	I	—
E10	EUMI	1141	F	A	U	A	Injured
D8	PEMA	1143	M	A	J	I	—
E8	PEMA	2031	F	J	11	I	—
E7	PEMA	2131	M	J	U	D	—
D7	PEMA	2132	M	J	U	D	—
D6	PEMA	1351	M	J	U	I	—
F6	PEMA	2134	M	A	U	I	—
E5	EUMI	1451	F	A	U	I	—
D5	EUMI	2032	F	A	24	I	—
C2	PEMA	1225	F	A	U	I	—
B1	EUMI	2013	F	A	30	I	—
B4	PEMA	2035	M	J	11	I	—
C4	EUMI	1215	M	A	U	I	—
C5	SPLA	1423	F	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

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2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.17

Grid Name Sagebrush Grid # D Project 83 Trap Night 5

Date, time traps set 7/27/76 (1630) Date, time traps checked 7/28/76 (1[illegible])

Last toe clip # used on previous day 2335 Field Analyst(s) DCK

QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	animal Trap Weight	Reprod. Status	Additional* Notes
B6	PEMA	2153	F	A	U	D	—
C8	EUMI	1041	F	A	U	I	—
CD	SPLA	1915	F	A	U	I	—
B10	EUMI	3410	F	A	U	I	—
C13	EUMI	6211	M	A	U	I	—
B13	EUMI	2041	M	A	47	I	—
E12	EUMI	2050	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 3 of 3 File No: [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Snowbrush Grid D Sample Period 8 Trap Night 5

Date, time traps set 27 July 1976 (1630) Date, time traps checked 28 July 1976 (1530)

Last toe clip # used on previous day [illegible] Field Analyst(s) GAR

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-3	[illegible]	[illegible]	M	A	[illegible]	A	[illegible]
M-4	[illegible]	[illegible]	M	[illegible]	[illegible]	T	—
J-12	[illegible]	[illegible]	F	A	[illegible]	I	
L-12	[illegible]	[illegible]	M	[illegible]	[illegible]	T	—
L-10	[illegible]	[illegible]	F	J	13	D	[illegible]
L-6	EUMI	[illegible]	F	A	U	I	—
K-10	EUMI	[illegible]	F	A	U	I	—
K-12	EUMI	[illegible]	M		24	I	—
J-12	EUMI	[illegible]	[illegible]	[illegible]	[illegible]	T	—
J-9	PEMA	[illegible]	F	A	U	D	—
J-8	PEMA	[illegible]	[illegible]	J	12	I	—
J-8	PEMA	[illegible]	[illegible]	[illegible]	U	D	—
J-6	PEMA	[illegible]	F	A	U	T	—
J-5	PEMA	[illegible]	F	A	U	L	—
J-2	EUMI	[illegible]	M	A	U	T	—
J-1	EUMI	[illegible]	M	[illegible]	U	I	—
H-1	SPLA	[illegible]	F	A	152	I	—
H-5	PEMA	[illegible]	M	A	U	D	—
H-8	PEMA	[illegible]	M	A	U	I	—
H-9	PEMA	[illegible]	M	A	U	D	—
H-10	PEMA	[illegible]	[illegible]	[illegible]	[illegible]	I	—
H-11	PEMA	[illegible]	F	A	U	I	—
A-1	SPLA	[illegible]	F	A	154	I	—
A-3	EUMI	[illegible]	[illegible]	A	U	I	—
A-4	PEMA	[illegible]	M	J	14	I	—
A-4	PEMA	[illegible]	F	J	12	I	—
A-12	EUMI	[illegible]	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 330.3.1.212

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 1 Trap Night 4

Date, time traps set 7/13/76 (1000) Date, time traps checked 7/14/76 (0900)

Last toe clip # used on previous day 2041/3014 Field Analyst(s) Clark

Project 53 QA Check Jim 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
1-1	PEMA	3114	F	A	U	I	
1-3	PEMA	2151	M	A	U	I	
A-4	PEMA	2042	M	J	13	I	
A-5	PEMA	1115	M	A	15.5	I	
2-1	PEMA	2042	F	A	19	I	
2-2	PEMA	2323	M	A	U	I	
2-3	PEMA	1224	M	A	U	I	
2-4	PEMA	2043	F	J	10	I	
C-1	PEMA	1120	F	A	U	I	
C-2	PEMA	1121	F	A	U	I	
C-3	PEMA	1125	F	A	U	I	
C-4	PEMA	1131	M	A	U	I	
C-5	PEMA	1132	M	A	U	I	
D-1	PEMA	1133	M	A	30	I	
D-2	PEMA	1134	F	A	U	I	
D-3	PEMA	1145	F	A	U	A	Lact.
D-4	PEMA	0353	F	A	U	I	
D-6	PEMA	2022	F	A	U	I	Cannula
D-7	PEMA	1451	F	A	U	I	
D-8	PEMA	1241	F	A	U	I	
D-9	PEMA	2051	M	A	U	I	
C-2	PEMA	2450	F	J	U	I	
C-1	PEMA	0051	M	A	23	I	
E-1	PEMA	0424	F	J	U	I	
E-2	PEMA	2052	F	A	U	I	
E-3	PEMA	1051	M	A	16.5	I	
E-6	PEMA	2053	F	A	15	A	Cannula Juv.
I-1	PEMA	2124	M	J-A	U	I	
I-6	PEMA	2125	F	A	U	I	
F-1	SPLA	1443	M	A	U	I	
H-2	PEMA	1223	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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2 of 2

SMALL MAMMAL LIVE TRAPPING [illegible] DATA SHEET

83.C.5.1.2.17

Grid Name Sagebrush Grid # D Project 83 Trap Night 6

Date, time traps set 28 July 1976 (1700) Date, time traps checked 29 July 1976 (0815)

Last toe clip # used on previous day 3013 Field Analyst(s) GAR

QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
M-3	PEMA	2011	F	A	U	I	—
M-4	EUMI	1232	F	A	U	I	—
M-11	EUMI	1241	F	A	U	I	—
L-12	PEMA	3014	M	A	16	D	—
L-10	PEMA	0014	F	A	U	I	—
F-10	EUMI	1243	F	A	U	I	—
I-9	PEMA	1314	F	A	U	I	—
J-9	PEMA	2240	F	J	U	I	—
J-8	PEMA	2450	F	J	U	I	—
I-8	PEMA	3015	F	J	12	I	—
J-6	PEMA	3401	F	J	12	I	—
I-6	EUMI	1215	M	A	U	I	in torpor
I-5	EUMI	3402	F	A	32	I	—
J-3	EUMI	1131	F	A	U	I	—
J-1	EUMI	1312	M	A	U	I	—
H-3	PEMA	3403	M	J	10	I	—
G-1	PEMA	3404	F	J	13	I	—
H-8	PEMA	2100	M	J	U	I	—
G-8	PEMA	1145	F	J	U	I	—
G-9	PEMA	0230	M	A	U	I	—
G10	PEMA	1145	M	A	U	I	—
H-10	PEMA	1335	M	A	U	I	—
H-9	PEMA	3405	F	A	15	I	—
							"

Trap

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 1 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed brush (South) Grid F Sample Period 8 Trap Night 1

Date, time traps set 0830 7/23/76 Date, time traps checked 0830 7/24/76

Last toe clip # used on previous day 1151 Field Analyst(s) Audrey, Peggy

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	Pema	1152	F	A	14	I	
C-1	EUMI	1144	M	A	~~28~~ V	D	MUTILATED ANTS
D-1	PEMA	1153	F	A	16	A	~~Preg~~
F-1	Eumi	1154	m	J	~~30~~ V	P	
K-1	Pema	1155	F	A	18	A	~~Preg~~
L-3	Eumi	1211	M	A	~~24~~ V	D	
L-4	Eumi	1212	F	A	u	I	
L-5	Pema	e1243	m	A	16	A	
L-8	Eumi	1213	F	A	~~36~~ V	D	~~Lact~~ Preg
L-10	Spla	1214	F	A	~~52~~ V	D	
L-11	Pema	0413	m	A	20	A	
L-12	Eumi	0155	F	A	34	E	
J-1	Eumi	1215	F	A	30 V	D	
J-2	Pema	1221	F	A	16	D	
J-7	Pema	1222	M	A	~~XX~~ V	D ~~E~~	
I-1	Spla	1223	m	A	~~XX~~ V	D	no food left
J-6	Pema	1452	F	J	~~X~~ V	D ~~E~~	
I-6	Eumi	1453	m	A	U	D	
J-4	Eumi	1454	m	A	~~X~~ U	D ~~E~~	
J-3	Pema	1455	m	A	~~1X~~ V	D	
E-4	Pema	0421	m	A	14	D	
E-5	Pema	2111	F	A	22	A	
F-2	Pema	2112	F	J	16	J	
E-6	Spla	2113	m	A	~~X~~ V	D	
F-8	Pema	2114	M	J	~~1X~~ V	D	
E-8	Pema	2115	F	J	~~1X~~ V	D	
F-10	Eumi	4101	m	A	~~3X~~ V	D	
F-12	Eumi	1010	m	A	~~3X~~ V	D	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING ...LD DATA SHEET File No: 83.5.1.3.15

Grid Name Mixed Brush (Soap) Grid E Sample Period 8 Trap Night 1

Date, time traps set 0830 7/23/76 Date, time traps checked 0830 7/24/76

Last toe clip # used on previous day 1313 Field Analyst(s) Arnoldsen, McGregor

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	SPIA	1314	F	A	144	I	
J-1	SPIA	1315	F	A	164	I	
L-1	PEMA	1341	F	A	18	A	LACT.
A-2	EUMI	1433	M	A	36	D	
M-3	PEMA	1122	F	A	20	A	LACT.
M-4	EUMI	1321	F	A	28	I	Sick
M-6	EUMI	1322	M	A	26	I	Sick Tour Gone
M-8	EUMI	2005	F	A	36	I	
M-10	EUMI	0340	M	A	38 U	D	
M-11	EUMI	1323	F	A	31 U	D	
M-12	EUMI	0354	M	A	32 U	D	
L-13	EUMI	0405	M	A	36 U	D	
K-13	EUMI	2003	M	A	40 U	D	
K-11	Milo	1324	M	A	32 U	D	
K-10	PEMA	1327	M	A	16	A	
K-9	EUMI	1331	M	A	28	I	
K-6	PEMA	1333	M	A	18	A	
K-3	EUMI	1244	M	A	32 U	D	
K-2	PEMA	1421	M	A	18	A	* UNSURE CLIP # LEFT Rear Foot deformed
K-2	PEMA	1332	F	A	18	I	
J-2	EUMI	1334	F	A	31 U	D	
H-3	EUMI	1335	M	A	32	I	
H-6	PEMA	1342	M	A	16	A	
G-7	EUMI	1343	M	A	26	I	
G-9	EUMI	1344	M	A	26	I	
H-9	PEMA	1345	F	A	16	A	
H-12	EUMI	1351	M	A	32 U	D	
H-13	EUMI	0123	F	A	34	I	
D-13	EUMI	1352	F	A	30	I	
D-11	PEMA	0424	F	A	16	A	
D-10	PEMA	1353	F	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 3 of 3 File No: 83.C.5.1.2.1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Fixed brush (South) Grid F Sample Period 8 Trap Night 1

Date, time traps set 0830 7/23/76 Date, time traps checked 0830 7/24/76

Last toe clip # used on previous day 1313 Field Analyst(s) McGregor, Hendricks

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-9	PEMA	1354	F	A	16	A	
D-8	PEMA	1355	M	A	14	A	
D-7	PEMA	1444	M	A	18	A	
D-6	EUMI	1411	M	J	30 U	D	
D-1	SPLA	1412	M	A	200	I	caught night / Trapset same day
C-1	SPLA	1413	F	A	142	I	" "
A-1	SPLA	1414	M	A	186	I	" " Ticks
A-3	SPLA	2301	M	A	178 U	D	
A-6	EUMI	1402	M	A	28	I	
A-10	EUMI	1033	F	A	30 U	D	
A-11	EUMI	2302	F	A	30 U	D	
A-12	EUMI	2303	M	A	26	I	
B-5	EUMI	2304	F	A	26	A	Swollen nipples
B-12	PEMA	2305	M	A	16 U	D	
B-8	EUMI	2401	F	A	34	A	Swollen nipples
B-6	EUMI	2402	M	J	22	I	
B-4	PEMA	2403	M	J	12 U	D	
B-4	PEMA	1145	M	A	16 U	D	
C-4	PEMA	2404	M	A	14	A	
C-10	PEMA	2405	M	A	16 U	D	
C-11	EUMI	2110	M	A	30 U	D	
C-12	EUMI	0345	F	A	4	D	
D-12	SPLA	2120	M	J	100	I	Saw F day recapture
F-5	SPLA	2130	M	A	226	I	" "
F-12	EUMI	2140	M	A	28	I	" "

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: [illegible]

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name South Mixed Brush Grid E Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 08:30 Date, time traps checked 7/25/76 08:00

Last toe clip # used on previous day 2115 Field Analyst(s) D. McGregor, P. Arnold

Project 83. QA Check bm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-2	Pema	2121	F	A	16	I	
F-2	Pema	2122	F	A	16	I	
H-2	Pema	2123	F	A	18	A	[illegible]
L-2	Fumi	2132	M	U	U	D	[illegible]
L-3	Pema	2133	M	A	14	I	
L-4	Fumi	2134	F	A	26	I	
L-6	Pema	2343	M	A	14	I	
L-8	Fumi	2135	F	A	26	I	[illegible]
L-10	Pema	0313	M	A	18	I	
L-11	Spla	~~2147~~	U	A	U	D	
L-12	Fumi	0430	F	A	34	A	Nipples [illegible] but not [illegible]
J-13	Pema	2147	M	A	14	I	
J-12	Pema	2143	F	A	14	I	[illegible]
J-10	Fumi	2144	M	A	30	I	[illegible]
I-10	Pema	2145	M	J	12	I	
I-9	Pema	2151	M	A	18	I	
I-9	Pema	0345	F	A	12	A	Nipples enlarged
I-8	Pema	2152	M	A	14	I	
I-7	Pema	2153	F	A	14	I	
J-8	Pema	2154	M	A	16	I	[illegible]
J-7	Pema	1333	M	A	14	I	"
~~I-6~~	~~Spla~~	[illegible]			[illegible]	[illegible]	~~[illegible]~~
I-5	Pema	2011	F?	J	10	I	no nipples?
J-5	Spla	2012	F	J	≃ 125	I	very hard to tell
F-3	Pema	2111	F	A	U	A	[illegible]
E-4	Fumi	2013	F?	A	28	I	[illegible] no nipples
F-4	Fumi	2014	M	J	26	I	
F-6	Pema	2015	F	A	16	A	lactating
F-8	Pema	2021	F	J	12	I	
F-11	Pema	2112	F	A	U	A	vulva open
A-3	Fumi	2028	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83-C-5128

Sheet 2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed brush Grid E Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 0730 Date, time traps checked 7/25/76 0730

La[illegible] toe clip # used on previous day 2140 Field Analyst(s) [illegible]

Project [illegible] QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional Notes*
B-1	Pema	2150	F	A	16	I	
C-1	Pema	2210	F	A	16	I	
D-1	Pema	1153	F	A	20	A	Preg
H-1	SPLA	2220	M	A	16.4	I	
K-1	Pema	1155	F	A	U	D	
L-1	Eumi	2230	F	A	U	D	
M-2	Pema	2240	M	A	18	A	
M-3	Pema	1172	F	A	U	I	
M-4	Eumi	2250	M	A	26	I	
M-6	Eumi	2255	F	A	U	D	
M-8	Pema	2310	F	A	14	I	
M-10	Eumi	0155	M	A	U	D	
M-[illegible]	Eumi	2320	M	A	30	I	
M-12	EuQu	2330	M	A	U	D	
L-13	Eumi	2340	F	A	U	D	
K-11	Pema	2350	F	J	10	I	
K-10	Eumi	4100	F	A	38	I	
K-6	Pema	2410	M	A	16	I	
K-4	Eumi	2420	F	A	U	D	
K-3	Eumi	1321	F	A	U	I	
H-3	Eumi	2430	M	A	30	I	
G-5	Pema	2441	F	A	16	I	
H-6	EUMI	1331	M	A	U	I	
G-[illegible]	Pema	2450	M	A	20	I	
H-9	EUMI	3011	F	A	30	I	
H-10	Pema	3012	M	J	12	I	
H-13	EUMI	1312	M	A	U	I	
D-11	Pema	3013	M	A	16	I	
C-10	Pema	1414	F	A	U	I	
D-9	Eumi	3014	F	A	[illegible]	I	
D-5	Pema	3[illegible]0	F	A	16	I	

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

070/060175

[illegible] Consultants, Inc.

File No: [illegible]

File No: 53 0 5 / 3 15

Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPIN FIELD DATA SHEET

Grid Name M-B South Grid F Sample Period 4 Trap Night 7

Date, time traps set 7/24/76 0830 Date, time traps checked 7/25/76 0830

Last toe clip # used on previous day 2140 Field Analyst(s) Dennis McGregor

Project 83 QA Check brm 8-2-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-3	Pema	3401	F	A	16	I	
B-4	Fumi	3402	M	A	30	I	
B-6	Pema	3403	F	A	18	I	
B-12	Pema	3404	M	A	16	A	
B-13	Fumi	3405	F	A	28	I	
A-11	Fumi	3110	F	A	30	I	
A-10	Fumi	3120	F	A	32	I	
A-8	Fumi	1402	M	A	U	I	
A-6	Fumi	2402	M	A	U	I	
C-4	Pema	1415	M	A	20	A	
C-6	Fuqu	3130	M	A	44	A	Ticks
C-8	Pema	3140	F	A	16	I	
C-10	Fumi	3150	M	A	24	I	
C-11	Pema	3210	F	A	14	A	Ticks
C-12	Pema	3220	F	A	U	D	
F-13	Fumi	0123	F	A	U	I	
F-11	Pema	1354	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

REPORT PROGRESS REPORT

File No: 83.03.12.13

Sheet 1 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name M-B (South) Grid F Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 0830 Date, time traps checked 7/26/76 0830

Last toe clip # used on previous day 2022 Field Analyst(s) McGregor, Arvidsen

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	SpLA	1314	F	J	130	I	
C-2	Pema	2131	F	A	14	I	
H-2	Pema	2023	F	A	16	A	
J-2	Eumi	2134	F	A	U	I	poor shape
K-2	Eumi	2024	F	A	32	I	" "
L-2	Pema	2025	M	J	14	I	
L-3	Eumi	1321	F	J	28	I	
L-8	Eumi	2135	F	J	28	I	
L-12	Pema	2031	F	A	16	I	
J-11	Spla	2032	F	A	U	A	
J-10	Pema	2033	M	A	16	I	
I-10	Pema	1345	F	A	16	A	LACT.
I-9	Pema	2151	M	A	16	A	
J-8	Eumi	2034	M	A	32	I	
I-8	Eumi	2035	F	J	30	I	
I-7	Eumi	2041	F	A	34	I	
I-5	Pema	2011	F	J	12	I	
E-3	Pema	2042	F	A	14	I	
E-5	Spla	2043	F	A	110	A	
E-4	Spla	2130	M	A	204	I	
F-4	Pema	2015	F	A	20	A	
E-5	Pema	1153	F	A	22	A	Preg.
F-7	Pema	0444	M	A	16	A	
E-8	Eumi	2013	F	A	28	I	
E-7	Pema	2044	F	J	12	I	
E-8	Pema	1355	M	J	14	I	
E-9	Pema	2450	M	A	18	A	
E-10	Pema	2045	M	A	14	I	
E-11	Spla	2051	F	A	144	A	
F-12	Eumi	2052	M	A	30	A	

*Key taxonomic characters, physical condition of animal, etc.

RIBOFLAVIN

070/060175

2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET Sample period 83.C.5.1.2.18

Grid Name A-B (South) Grid # E Project 83 Trap Night 3

Date, time traps set 7/25/76 0830 Date, time traps checked 7/26/76 0[illegible]

Last toe clip # used on previous day 3220 Field Analyst(s) McGregor, Arvidson

QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-1	EUMI	3230	M	A	32	I	
C-1	EUMI	3240	M	A	U	D	
D-1	SPLA	3250	M	A	164	I	
F-1	EUMI	3310	M	A	U	D	
H-1	Pema	3320	F	A	18	T	
L-1	EUMI	3330	F	A	U	D	
M-2	EUMI	3340	M	A	44	A	
M-3	EUMI	3350	F	A	U	D	
M-4	EUMI	2250	M	A	U	D	
M-10	EUMI	3410	M	A	34	I	
M-11	SPLA	3420	M	A	128	I	
M-12	EUMI	2320	M	A	U	D	
L-13	EUMI	3450	F	A	U	D	
K-13	SPLA	3445	M	A	200	I	
K-12	EUMI	0430	F	A	30	A	
K-11	Pema	214	M	A	20	I	
K-10	EUMI	1531	M	A	U	D	
K-3	PEMA	3150	F	A	14	I	
J-3	PEMA	1423	M	A	20	I	MANGLED REAR F.O
G-4	Pema	4011	F	A	18	A	
G-5	Pema	4012	F	A	26	A	Preg.
G-7	EUMI	4013	M	A	30	I	
H-9	Pema	3152	M	A	U	I	
J-9	[illegible]	[illegible]	F	A	18	A	
H-11	EUMI	2044	A	A	U	I	
H-12	EUMI	4015	F	A	U	D	
D-11	Pema	1353	F	A	U	D	
D-9	Pema	4021	F	A	18	A	Preg.
D-8	Pema	4023	F	A	20	A	
D-7	Pema	4022	M	A	14	I	
D-5	[illegible]	[illegible]	[illegible]	[illegible]	U	I	

*Key taxonomic characters, physical condition of animal, etc.

3 OF 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.15

Grid Name M-B (South) Grid # E Project 83 Trap Night 3

Date, time traps set 7/25/84 0830 Date, time traps checked 7/26/84 0830

Last toe clip # used on previous day 3220 Field Analyst(s) McGregor, Armitage

Sample period 8 QA Check

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
C-6	Pema	4024	M	A	16	I	
C-12	Pema	4023	M	A	16	A	
B-13	Eumi	4025	M	A	U	D	
B-12	Pema	3[illegible]00	M	J	U	I	
A-11	Pema	4110	F	A	U	I	
A-10	Pema	4120	M	J	14	I	
B-8	Eumi	3154	M	A	U	D	
A-6	Eumi	2102	M	J	U	I	
B-6	Pema	4130	F	A	16	I	
B-3	Eumi	1402	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

FROM PROGRESS REPORT

SMALL MAMMAL LIVE TRAPPING FIELD DAT SHEET 83.C.5.1.2.18

Grid Name Hyl...Meadow Grid # E Project 83 Trap Night 4

Date, time traps set 7/26/76 Date, time traps checked 7/27/76

Last toe clip # used on previous day 2052 Field Analyst(s) [illegible]

QA Check June 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-2	Sola	2052	M	A	50	I	[illegible]
[illegible]	[illegible]	2051	F	J	12	I	[illegible]
C-2	Sola	1413	F	J	U	I	R
[illegible]	[illegible]	[illegible]	M	A	30	I	N
H-2	[illegible]	2023	F	A	U	A	Recaps
K-2	Fumi	2131	F	A	U	I D	R
L-2	Fumi	2131	M	A	29	A	N
L-4	Fumi	1321	F	A	U	I	R near den
L-6	Pima	2102	F	A	U	I	N
L-8	Fumi	2135	F	A	U	I	R
L-11	Fumi	2103	F	A	32	I	N
L-12	Fumi	3010	M	A	U	A	R scrotal
J-13	Fumi	2104	F	A	U	A D	N lactating
J-12	Fumi	2044	M	A	U	I	R
J-10	[illegible]	0413	M	A	U	A	R
I-10	[illegible]	0345	F	A	U	A	R lact
J-9	Sonia	2105	M	J	12	I	N
J-9	Pima	2201	F	J	12	I	N
J-8	Fumi	2034	M	A	34	A	R
I-8	Pima	2152	M	A	16	I	R
I-4	Fumi	2034	F	A	U	I	R/V poor + hair
J-7	Pima	1333	M	A	U	A	R scrotal
J.C.	Fumi	4100	F	A	U	I	R
I-5	Pima	2202	F	A	18	I	N
J-11	Fumi	2041	F	A	U	I	R
F-3	Pima	2042	F	A	U	I	R
F-4	Fumi	2203	F	A	32	I	N
F-6	Pima	2112	F	A	U	A	R lact
F-6	Pima	1153	F	A	U	A	R Preg + lact
F-8	Pima	2100	M	A	U	A	R
F-9	Pima	1354	F	A	U		R scrotal

*Key taxonomic characters, physical condition of animal, etc

RBOOP PROGRESS REPORT

2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 83.C.5.12.18

Grid Name M-B Spatt Grid # E Project 33 Trap Night 4

Date, time traps set 7/26/76 0930 Date, time traps checked 7/27/76 0830

Last toe clip # used on previous day 4130 Field Analyst(s) McChesney, Austin

Sample Period 5 QA Check Lund 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
E-1	SPLA	4140	F	J	14g	I	NEW
J-1	SPLA	1315	F	A	U	I	
K-1	Fumi	4150	F	A	U	D	NEW
M-3	FUMI	2094	F	A	U	D	
M-4	FUMI	2250	M	A	U	I	
M-6	FUMI	4210	M	A	U	D	NEW
L-13	Pema	2031	F	A	U	D	
K-12	Fumi	4220	M	A	U	D	NEW
K-11	Pema	2200	M	A	U	A	
J-3	FUMI	1355	M	A	U	I	
H-3	Fumi	2550	M	A	U	I	
H-4	Pema	4230	F	A	14	I	NEW
G-3	Pema	4240	F	A	13	I	NEW
H-5	Pema	4250	F	A	14	I	NEW
G-6	FUMI	1013	M	A	U	D	
G-7	Pema	2153	F	A	U	I	
G-9	FUMI	4310	M	A	U	D	NEW
H-9	Pema	2151	M	A	U	A	
H-10	FUMI	3014	F	A	U	I	
H-11	Pema	4320	F	A	14	I	NEW
F-13	FUMI	1256	M	A	32	I	
D-10	FUMI	2114	M	A	U	I	
E-10	Pema	4330	F	A	20	I	NEW
E-9	FUMI	2013	F	A	U	I	
D-9	Pema	0424	F	A	11	I	
E-7	FUMI	2140	M	A	U	I	
D-7	Pema	0401	F	A	16	A	
D-6	FUMI	1343	M	A	U	I	
E-5	Pema	4340	M	A	18	I	NEW
D-5	SPLA	4345	M	A	134	I	NEW
D-4	Pema	4350	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

REPORT

3 OF 3.

SMALL MAMMAL LIVE TRAPPING FIEL DATA SHEET 830 5.1.2.1B

Grid Name M-B (South) Grid # E Project 83 Trap Night 4

Date, time traps set 7/26/76 0830 Date, time traps checked 7/27/76 0830

Last toe clip # used on previous day 4130 Field Analyst(s) McGregor, Arvidson

Sample period 8 QA Check lrm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
C-6	Fumi	3230	M	A	U	I	
B-13	FUMI	3405	F	A	U	D	
A-10	Pema	3404	M	A	U	I	
A-8	Fumi	4410	F	J	26	I	new
B-8	FUMI	2402	M	J	U	I	
B-6	Fumi	3150	M	A	U	I	
B-4	FUMI	4420	M	A	U	D	NCW
B-3	Fumi	4430	F	A	U	D	NCW
F-10	Fumi	2205	M	A	U	I	New
A-2	Fumi	2204	F	A	34	I	New

v taxonomic characters, physical condition of animal, etc.

1 OF 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 93-5-1218

Grid Name [illegible] Brush (South) Grid # F Project 83 Trap Night 5

Date, time traps set 7/27/76 0930 Date, time traps checked 7/28/76 0930

Last toe clip # used on previous day 2205 Field Analyst(s) McGregor [illegible]

Sample period 6 QA Check Brun 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Trap Weight	Reprod. Status	Additional* Notes
A-2	Sola	1314	F	A	U	I	
E-2	Sola	1413	F	A	U	I	
H-2	Fumi	228	F	A	U	I	recap
K-2	Pema	2021	M	A	14	I	N
K-2	Pema	2133	M	A	16	I	
L-2	Fumi	2101	M	A	U	A	
L-3	Fumi	[illegible]					
L-4	Fumi	1321	F	A	U	I	recap
L-5	Pema	3022	F	A	14	I	N
L-6	Fumi	2114	M	A	U	I	
L-12	Fumi	0430	F	A	32	I	
J-1	Fumi	2014	M	A	U	I	
J-2	Fumi	2011	F	A	U	I	
I-10	Pema	2023	M	A	16	A	N
I-11	Fumi	324	F	A	32	I	N
I-9	Fumi	2025	F	J	24	I	N
H-9	Fumi	4100	F	A	34	I	
I-4	Pema	2021	F	A	16	I	N
I-7	Pema	2152	F	A	14	I	
I-8	Fumi	2003	F	A	32	I	N
I-7	Pema	1342	M	A	16	I ?	
I-7	Pema	1452	F	J	14	A	
J-1	Fumi	2-24	M	A	U	I	recap
I-2	Fumi	2013	F	A	32	I	N
I-4	Pema	2041	M	A	14	I	N
I-11	Pema	2022	M	A	16	A	N
F-2	Pema	2041	F	A	14	I	N
F-4	Pema	2015	F	A	20	A	[illegible]
F-5	Pema	1340	M	A	16	I	
G-4	Pema	2113	F	A	16	A	recap
G-7	Pema	2042	M	A	18	A	N good [illegible]

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

2 of 4

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.12.18

Grid Name Mixed brush (South) Grid # E Project 83 Trap Night 5

Date, time traps set 7/27/76 0830 Date, time traps checked 7/28/76 0830

Last toe clip # used on previous day 2205 Field Analyst(s) Arndtsen, McGregor

Sample period 8 QA Check ~~brm~~ 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
F-8	Fumi	2043	M	A	30	I	N/
F-9	Fumi	2044	M	J	24	I	N/ Poor image
F-10	Poma	3012	M	A	16	A	
F-10	Poma	2045	M	A	14	A	
F-12	Fumi	1352	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

Sheet 3 of 4 File No: 83C.5.1.2.18

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name M-B (South) Grid E Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 · 0930 Date, time traps checked 7/28/76 0830

La toe clip # used on previous day 4430 Field Analyst(s) McCready, Arnold

Project 43 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-1	SPLA	1412	M	A	U	I	
D-1	SPLA	4440	M	A	U	D	New
F-1	Pema	4450	M	A	14	I	New
H-1	SPLA	2220	M	A	U	I	
M-3	Fumi	4405	F	A	U	D	New
M-12	Fumi	4404	M	A	U	D	New
K-13	Fumi	2044	M	A	U	I	
K-12	Fumi	4403	F	A	U	D	New
K-11	Pema	01411	M	A	U	A	
K-8	Fumi	2135	F	A	U	I	
J-3	Fumi	2041	F	A	U	I	
G-4	Pema	4230	F	A	U	I	
H-5	Pema	4250	F	A	U	I	
G-6	SPLA	2043	F	A	U	I	
G-7	Pema	1253	M	A	14	I	
H-7	Fumi	4402	F	A	28	I	New
H-8	Fumi	2034	F	A	U	I	
G-8	Fumi	4401	M	A	28	I	New
G-9	Pema	1240	F	A	U	I	
H-9	Pema	3012	M	J	U	I	
H-10	Pema	4014	M	A	U	A	
H-11	Fumi	1250	M	A	U	I	
H-12	Fumi	4305	F	A	U	D	New
D-10	Pema	40230	M	A	U	I	
D-9	Fumi	2013	F	A	U	I	
D-6	Pema	4304	F	J	12	I	New
C-12	Fumi	1315	F	A	U	D	
B-13	Pema	4303	F	A	20	A	New
A-11	Mivi	4302	F	A	U	D	New
A-10	Fumi	4401	F	A	U	I	
B-10	Fumi	3011	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

REPORT

070/060175

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Sheet 4 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.C.5.1.2.18

Grid Name M-B (SOUTH) Grid F Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 0830 Date, time traps checked 7/28/76 0830

Last toe clip # used on previous day 0430 Field Analyst(s) McGregor, Rundle

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-8	Eumi	2401	M	A	U	I	
A-8	Eumi	1010	F	J	U	I	
B-6	Pema	3403	F	A	U	A	
B-4	Pema	4130	F	A	U	I	
A-3	Eumi	4301	F	A	50	I	New

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

File No: 330.5.1.218

et 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

id Name M-B (South) Grid E Sample Period 8 Trap Night 6

te, time traps set 7/28/76 0830 Date, time traps checked 7/29/76 0830

st toe clip # used on previous day 3042 Field Analyst(s) McGregor

oject 83 QA Check [illegible] 8-3-76

Trpt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
[illegible]-1	Pema	1332	F	A	U	I	
E-1	Pema	1153	F	A	U	D	
[illegible]-1	Eumi	3033	F	A	U	I	
[illegible]-3	Eumi	1321	F	A	U	D	
[illegible]-13	Eumi	2103	M	A	U	D	
[illegible]-12	Eumi	3013	M	A	32	I	NEW
[illegible]-11	Eumi	3044	M	A	U	D	
[illegible]-10	Eumi	3045	F	A	30	I	NEW
[illegible]-8	Pema	3051	M	J	14	I	NEW
[illegible]-4	Eumi	3052	M	A	28	I	NEW
[illegible]-3	Eumi	3053	M	A	30	I	NEW
[illegible]-1	Pema	3025	M	A	U	I	
K-2	Pema	3054	M	J	12	I	NEW
K-4	Eumi	3055	F	A	U	D	NEW
K-11	Pema	0040	M	J	14	A	
K-12	Pema	3101	M	J	12	I	NEW
K-13	Eumi	2014	M	A	U	D	
J-10	Eumi	4402	F	A	U	D	
I-10	Pema	1014	M	A	16	A	
I-9	Eumi	3011	F	A	U	I	
J-9	Eumi	3410	M	A	U	I	
J-8	Eumi	3025	F	A	U	I	
I-8	Pema	2154	M	A	U	D	
I-7	Pema	2152	M	A	U	I	
J-7	Pema	1025	F	A	20	A	PREG
J-6	Pema	3102	M	A	30	I	NEW
I-6	Eumi	2024	M	A	U	I	
I-5	Eumi	2103	M	A	30	I	NEW
[illegible]-4	Eumi	2041	F	A	U	I	
[illegible]-3	Eumi	3104	F	A	U	D	NEW
[illegible]-2	SPLA	1220	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name M-B (South) Grid E Sample Perio 8 Trap Night 6

Date, time traps set 7/28/76 0930 Date, time traps checked 7/29/76 0830

Last toe clip # used on previous day 3042 Field Analyst(s) McGregor

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
G-5	Eumi	2013	F	A	U	I	
G-7	Pema	2202	F	A	U	I	
H-7	Pema	4330	F	A	U	I	
G-9	SPLA	2043	F	J	U	I	
H-10	Eumi	3105	M	A	U	D	New
I-11	Eumi	2250	M	J	U	I	
I-12	Eumi	3201	F	A	30	A	New
H-12	Pema	4320	F	J	U	D	
G-11	SPLA	2051	M	A	U	A	
F-10	Eumi	4401	M	A	U	D	
E-10	Eumi	1255	M	A	U	I	
F-9	Pema	2045	M	A	U	I	
F-8	Eumi	1312	M	A	U	I	
E-8	Pema	2044	F	A	U	I	
F-7	Eumi	3202	M	J	26	I	New
E-5	Pema	3015	F	A	U	I	
E-4	Pema	3203	M	J	12	I	New
F-3	Pema	2043	F	A	U	I	
F-2	Eumi	2055	M	A	U	A	
D-5	Pema	4024	M	A	U	I	
D-6	Pema	2112	F	A	U	D	
D-9	Pema	1354	F	A	U	D	
C-12	Eumi	2140	M	A	U	D	
C-4	Eumi	4305	F	A	U	I	
C-2	Eumi	3204	M	A	U	I	New
B-3	SPLA	1412	M	A	U	I	
B-4	Pema	1415	M	A	U	A	
B-6	Pema	3403	F	A	U	D	
A-8	Eumi	3044	M	A	U	D	
A-10	Pema	3404	M	A	U	D	
A-4	Eumi	3150	M	A	U	D	

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

070/060175

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et 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

d Name M-B (South) Grid _____ Sample Period 8 Trap Night 6

e, time traps set 7/28/76 0730 Date, time traps checked 7/29/76 0830

t toe clip # used on previous day 3042 Field Analyst(s) McGregor

ct 83 QA Check Lum 8-3-76

t. .	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
2	Eum.	3205	M	A	32	I	NCW

ey taxonomic characters, physical condition of animal, etc.

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70/060175

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Sheet 1 of 5 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name MB (South) Grid E Sample Period [illegible] Trap Night 7

Date, time traps set 7/29/76 0830 Date, time traps checked 7/30/76 0830

Last toe clip # used on previous day 3205 Field Analyst(s) McGregor

Project 83 QA Check bm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	Pema	3301	M	A	16	A	
C-1	Peca	1332	F	A	U	I	
C-1	[illegible]	3204	M	A	U	I	
K-1	[illegible]	1427	M	A	U	A	[illegible]
[illegible]	[illegible]	2101	M	A	U	D	
M-4	Peca	1122	F	A	U	I	
L-12	Peca	3302	M	A	13	A	
L-12	[illegible]	3040	M	A	28	I	
[illegible]	[illegible]	0413	F	[illegible]	U	A	
L-9	[illegible]	4100	[illegible]	A	U	I	
6	[illegible]	[illegible]	[illegible]	A	26	I	
L-3	[illegible]	1133	F	A	U	I	
[illegible]	[illegible]	1315	F	A	U	I	
K-12	SPLA	3420	M	A	U	I	
K-13	Peca	2411	M	A	U	I	
[illegible]	[illegible]	4304	M	A	U	D	
J-12	SPLA	4310	M	A	U	I	
[illegible]	[illegible]	0430	F	A	U	A	
[illegible]	[illegible]	3023	M	A	U	A	
I-10	[illegible]	3025	F	A	U	I	
J-9	Peca	3305	M	A	18	I	
J-8	[illegible]	1452	F	A	U	I	
I-8	[illegible]	2034	M	A	U	I	
I-7	[illegible]	3153	F	A	U	I	
I-7	[illegible]	2101	M	A	U	A	
J-6	[illegible]	3110	M	A	U	I	
I-5	[illegible]	[illegible]	F	A	U	D	
J-4	[illegible]	[illegible]	F	A	U	I	
I-3	[illegible]	1335	M	A	U	D	
J-2	[illegible]	3150	M	A	U	D	
[illegible]	[illegible]	[illegible]	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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File No: 83.C.5.1.218

Sheet 2 of 3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name M-B (South) Grid E Sample Period 8 Trap Night 7

Date, time traps set 7/29/76 0830 Date, time traps checked 7/30/76 0830

Last toe clip # used on previous day 3205 Field Analyst(s) McGregor

Project 83 QA Check bm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-3	SPLA	2130	M	A	U	I	
F-4	Pema	2405	F	A	U	I	
F-6	SPLA	1413	F	A	U	I	
F-7	SPLA	2033	F	A	U	I	
F-8	Pema	2152	M	A	U	I	
F-10	Fumi	2034	F	A	U	I	2 Toes missing
F-11	Fumi	1031	F	A	27	I	
F-12	Pema	307	M	A	U	I	
E-12	Fumi	4032	M	J	26	I	
E-11	Fumi	2250	M	J	U	I	
E-10	Fumi	1325	M	A	U	I	
E-9	Fumi	4053	M	A	30	I	
E-8	Fumi	1504	F	A	U	I	
E-7	Pema	2044	F	A	U	I	
E-6	Pema	3035	M	A	U	I	
E-5	Pema	3013	F	A	U	I	
E-4	Pema	2015	F	A	U	I	
E-1	Pema	4021	M	A	U	I	
E-3	Fumi	4034	F	A	30	I	
E-2	Fumi	4034	F	A	30	I	
D-2	Pema	2404	M	A	U	I	
D-5	Pema	4034	F	A	U	I	
D-8	Pema	1404	M	A	U	I	
D-9	Fumi	1543	M	A	U	I	
D-11	Fumi	4041	F	A	31	I	
C-12	Fumi	1020	F	A	U	D	
B-2	SPLA	1314	F	A	U	I	
B-6	Pema	1130	F	A	U	A	
B-12	Fumi	4002	M	A	U	D	
A-9	Pema	4043	M	A	U	I	
A-11	Fumi	4044	M	A	34	I	

*Key taxonomic characters, physical condition of animal, etc.

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3 OF 3

83.C.5.12.18

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name M-B (South) Grid # E Project 83 Trap Night 7

Date, time traps set 7/29/76 0830 Date, time traps checked 7/30/76 0830

Last toe clip # used on previous day 3205 Field Analyst(s) McGregor

Sample period 4 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
A-10	Eusi	4305	M	A	U	D	
A-3	Eusi	4301	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83.0.5.1.3.19

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 1200 Date, time traps checked 7/24/76 1600

Last toe clip # used on previous day 3200 Field Analyst(s) Andrea McGregor

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-5	Pema	3300	F?	J	10	I	
F-5	Fuqu	3400	F	A	42	I	
E-6	Fuqu?	4601	F	A	(32)	I	unusual species?
E-7	Pema	4602	M	A	16	A	
E-9	Pema	4003	M	J?	10	A	o o - mid foot [illegible] o o
F-9	Pema	4604	F	J?	12	nipples unnoticed	Ears well scarred
F-6	Fumi	0031	M	A	26?	I	scale unscrewed [illegible]
G-9	Fuqu? pm	4005	F	A	50	I	lines + head
H-9	Fumi	4010	M	A	24?	I	o---- [illegible]
H-8	Fumi	4020	F?	A	32	I	o--
H-6	Pema	4020	F	J?	12	I	
I-6	Pema	4040	F	J?	12	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

[illegible] courtlandia, I

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 1200 Date, time traps checked 7/24/76 1600

Last toe clip # used on previous day 1005 Field Analyst(s) Arntsen, McGregor

Project 83 QA Check bum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
I-4	Eumi	1010	M	A	36	I	
H-3	Eumi	1020	F	A	32	I	
H-2	PEMA	4100	F	A	16	I	
H-1	Eumi	0044	F	A	34	I	
F-2	PEMA	4200	F	A	18	A	
F-3	Eumi	4300	F	A	36	I	
F-4	Eumi	4400	M	A	40	A	
D-5	PEMA	1011	M	J	10	I	
D-6	Eumi	1012	M	A	30	I	
D-10	Eumi	1013	F	A	32	I	
E-10	Eumi	1014	F	A	34	I	
F-10	EuOu	1015	M	A	32	I	
F-11	Eumi	0130	M	A	34	I	
H-13	PEMA	1021	F	A	16	I	
H-12	EuOu	1022	M	A	50	I	
I-10	EuOu	1023	M	A	42	I	
J-9	Eumi	1024	M	A	30	I	
J-7	Pema	1025	F	A	24	I	
J-8	Eumi	1031	M	A	32	I	
J-6	Eumi	1032	F	A	36	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name Douglas Fir Grid F Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 1500 Date, time traps checked 7/25/76 1230

Last toe clip # used on previous day 4040 Field Analyst(s) Arndtsen, McGregor

Project 63 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
G-4	Eumi	4050	M	A	3[illegible]	I	
F-5	Pema	1493	F	[illegible]	10	I	
F-5	Pema	1405	F	[illegible]	[illegible]	I	
F-5	Pema	011[illegible]	m	A	14	I	
F-6	Eumi	1012	M	A	U	I	
F-7	Pema	0112	F	A	[illegible]	A	[illegible]
F-8	Pema	011[illegible]	m	A	[illegible]	I	[illegible]
F-9	Pema	[illegible]011	M	A	U	I	one w[illegible]
F-7	Eumi	0114	m	A	[illegible]	I	
F-6	Pema	0115	m	A	14	[illegible]	
G-7	Eumi	0031	m	A	U	I	
G-9	Eumi	1015	m	A	U	A	
[illegible]	Pema	0121	F	[illegible]	[illegible]	A	

axonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

60175

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Sheet 2 of 2 File No. [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD SHEET

Grid Name DOUGLAS FIR Grid F Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 1500 Date, time traps checked 7/25/76 1230

Last toe clip # used on previous day 1032 Field Analyst(s) McGregor, Arnotsen

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-3	Pema	1033	M	A	14	I	
H-3	Pema	1034	F	A	14	I	
H-2	Pema	1035	F	A	14	I	
H-1	Pema	[illegible]	F	A	14	I	
H-1	Pema	1042	M.	A	14	I	
F-2	FUMI	1200	F	A	30	I	
D-4	Pema	1043	F	A	16	A	
D-6	FUMI	1044	F	A	34	I	
D-7	Pema	1045	F	J	12	I	
D-9	Pema	(4000)	F	A	14	I	(2 Animals same Toe clip
D-10	Fumi	1051	M	A	32	I	
E-10	FUMI	1052	F	A	36	I	
F-10	Pema	1053	F	A	14	I	
F-12	FUMI	4010	M	A	14	I	
H-13	FUMI	1054	M	A	44	A	
H-12	Pema	1055	F	A	14	I	
H-11	FUMI	1101	F	A	34	I	
H-10	FUMI	1102	F	A	36	I	

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

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File No. 233.7.2.79

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 1230 Date, time traps checked 7/26/76 1230

Last toe clip # used on previous day 0113 Field Analyst(s) Ayrault, McGregor

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-5	Fugu	0114	F	A	46	T	[illegible]
I-5	Pema	4002	M	A	U	A	
E-6	Pema	0121	F	J	12	I	
F6	Pema	1043	F	A	U	A	lact.
F-7	Pema	0122	F	A	20	A	scabbed nipples
F-9	Fugu	0123	M	A	44	A	[illegible]
F-8	Fugu	0150	F	A	40	F	
F-7	Fumi	0114	M	A	U	I	
F-6	Pema	0115	M	A	16	I	
G-6	Pema	1025	F	A	22	A	scabbed
G-7	Fumi	4020	M	A	30	A	[illegible]
G-8	Fugu	0124	F	A	40.5	A	lact
G-10	Fumi	0125	F	A	30	I	[illegible]
H-9	Fumi	4010	M	A	38	I	
H-8	Pema	0131	F	A	18	A	lactating
H-9	Fumi	0132	M	A	22	A	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 83 C.5.1.2.19

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 6 Trap Night 3

Date, time traps set 7/25/76 1230 Date, time traps checked 7/26/76 1230

Last toe clip # used on previous day 1102 Field Analyst(s) McGregor, Arndtsen

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-4	Fumi	1103	F	A	46	I	
H-2	Perm	4200	F	A	U	I	
F-1	[illegible]	1042	M	A	U	I	
D-7	Fumi	4400	M	A	U	D	
F-13	Fumi	0034	F	A	40	I	
F-10	Fumi	1014	F	A	U	I	
H-10	Fumi	1023	M	A	U	D	
J-7	Fumi	1104	F	A	18	I	
J-6	FUMI	1032	F	A	UA	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.19

Grid Name Douglas Fir Grid # F Project 83 Trap Night 4

Date, time traps set 7/26/76 1230 Date, time traps checked 7/27/76 1230

Last toe clip # used on previous day 1104 Field Analyst(s) McGregor, Anderson

Sample period 8 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	ANIMAL ~~Trap~~ Weight	Reprod. Status	Additional* Notes
H-3	Eumi	1300	F	A	26	I	
F-3	Pema	1105	F	J	12	I	NEW
D-4	EUMI	1044	F	A	U	I	
D-5	Eumi	1201	F	A	45	A	NEW
D-7	Pema	1045	F	J	U	I	
D-7	Pema	0112	F	A	18	A	Preg
D-9	Pema	1044	M	J	14	I	
D-9	Pema	1202	M	J	14	I	NEW
H-13	EUMI	0034	F	A	U	I	
H-12	Eumi	1203	F	A	34	I	NEW
H-10	Eumi	1204	M	A	32	I	NEW
I-10	Pema	1205	F	A	16	I	NEW
J-9	Eumi	1104	F	A	U	I	
J-6	EUMI	1301	F	A	30	I	NEW

*Key taxonomic characters, physical condition of animal, etc.

PROCESS REPORT

2 of 2.

SMALL MAMMAL LIVE TRAPPING FIELD DATA SET 83.C.5.1.2.19

Grid Name Douglas Fir Grid # F Project 83 Trap Night 4

Date, time traps set 7/26/76 1230 Date, time traps checked 7/27/76 1230

Last toe clip # used on previous day 0132 Field Analyst(s) Arndtsen, McGregor

Sample period 8 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight	Reprod. Status	Additional* Notes
[illegible]	Eucr	3400	F	A	41	[illegible]	R 30 mm [illegible]
6	Fumi	0132	M	A	36	I	N 1 [illegible] 1
[illegible]	[illegible]	0143	M	A	19	I	N
[illegible]	[illegible]	1243	F	A	U	D	R
F-7	Eucr	0123	M	A	U	T	R [illegible]
F-9	Fumi	0134	F	A	24	I	N
F-9	Eucr	1005	F	A	U	T	R
F-8	Eucr ?	0135	F	A	40	I	N
F-6	Pema	0115	M	A	U	T	R
[illegible]-7	Fumi	0114	M	A	U	I ?	R
F-6	Pema	0120	F	A	18	A	R [illegible]
F-6	Fumi	0141	M	A	24	I	N

*Key taxonomic characters, physical condition of animal, etc. [illegible] PROGRESS REPORT

File No: [illegible]

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 1230 Date, time traps checked 7/28/76 1200

Last toe clip # used on previous day 0143 Field Analyst(s) [illegible]

Project 83 QA Check Swan 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-6	[illegible]	[illegible]	M	A	U	[illegible]	large testes
F-6	[illegible]	4400	F	A	U	I	
G-7	Tumi	0145	M	A	28	[illegible]	N
A-8	Tumi	4010	M	A	U	I	
H-6	Peromyscus	1121	M	A	18	I?	
H-6	Peromyscus	4020	F	A	16	I?	
I-7	Tumi	0151	M	A	30	I	N
I-8	Tumi	0152	F	A	28	I	N
I-1	Peromyscus	1205	F	A	U	A	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

RBOSP PROGRESS REPORT

File No: 83.C.3.1.219

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas FR Grid F Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 1230 Date, time traps checked 7/28/76 1230

Last toe clip # used on previous day 1301 Field Analyst(s) McGregor, Arnsen

Project 83 QA Check bm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-1	Pema	1041	M	A	U	A	
D-4	Eumi	1012	M	A	U	I	
D-10	Eumi	1011	M	A	U	D	
H-11	Eumi	1054	M	A	U	D	
J-5	Eugu	0114	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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File No: [illegible]

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 8 Trap Night 1

Date, time traps set 1400 7/23/76 Date, time traps checked 7/24/76 12[illegible]

Last toe clip # used on previous day 2200 Field Analyst(s) P. Arndt, D. McGee

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-5	Pero	1021	M	A	16	A	
G-5	Fumi	0001	F	A	22	I	
I-9	Fumi	2300	F	A	22	I	
I-9	Pero	2302	M	A	18	A	
H-1	Clga	3001	F	A	16	I	
G-4	Pero	3002	M	A	14	A	
G-8	Pero	3003	F	A	14	I	
G-9	Pero	3004	M	A	12	A	
G-10	Fumi ?EUMI	3005	F	A	(21)	I	Broken skin final
F-4	Fumi	3010	F	A	21	I	" " "
F-7	Fumi	3020	M	A	20	I	
[illegible]							[illegible]
E-[illegible]	Pero	1000	M	A	14	A	uncertain toe clip
E-9	Clga	3030	F?	A	15	I	[illegible] lethargic [illegible] scrapped neck

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

070/060175

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File No: 83.05.1.2.20

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 1400 Date, time traps checked 7/24/76 1830

Last toe clip # used on previous day 1021 Field Analyst(s) Anderson, McGregor

Project 83 QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-4	PEMA	1022	F	A	14	A	LACT.
D-5	PEMA	1023	M	A	15	A	
D-7	EUMI	1024	F	A	32	I	
D-8	EUMI	1025	F	A	32	I	
D-9	PEMA	1031	M	A	14	I	
D-10	EUQU	1032	F	A	50	I	
E-11	EUMI	0103	F	A	40	I	
F-13	PEMA	1033	M	A	14	D	
H-13	PEMA	2040	F	A	20	I	
H-12	CLGA	1034	F	A	28	A	PREG
J-10	PEMA	2020	M	A	19	I	
J-9	CLGA	1035	F	A	28	A	LACT
J-6	PEMA	1041	M	A	18	I	
J-5	PEMA	1042	M	J	10	I	
H-4	EUMI	1043	M	A	32	I	
H-3	EUMI	1044	F	A	38	I	
H-2	PEMA	1045	M	A	18	I	
H-1	PEMA	1051	M	A	16	I	
F-2	PEMA	1052	F	A	16	A	
F-3	EUMI	1005	F	A	36	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G- Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 1700 Date, time traps checked 7/25/76 1500

Last toe clip # used on previous day 1052 Field Analyst(s) McGregor, Ramsey

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-4	CLGA	1053					
D-5	PEMA						
D-6	EUMI						
D-7	PEMA						
D-8	EUMI						
D-9	PEMA						
D-10	FLQU						
E-11	PEMA						
E-13	EUMI						
H-12	PEMA						
H-13	CLGA						
I-10	PEMA						
J-9	PEMA						
J-5	PEMA						
J-5	PEMA						
I-4	EUMI						
H-3	PEMA						
H-4	PEMA						
E-1	PEMA						
E-2	PEMA						
E-2	EUMI						

*Key taxonomic characters, physical condition of animal, etc.

INTERIM PROGRESS REPORT

070/060175

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Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING DATA SHEET File No: 83-C-5-18-80

Grid Name Pepen Grid G Sample Period 4 Trap Night 2

Date, time traps set 7/26/76 1700 Date, time traps checked 7/28/76 1000

Last toe clip # used on previous day 3052 Field Analyst(s) [illegible]

Project 013 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-5	Pema	1323	M	A	U	I	
G-5	Pema	3041	M	J	12	I	
G-4	Clay	3050	F	A	18	A	Pregnant
H-5	Pema	4/205	M	A	U	I	
I-8	Pema	3100	M	A	16	I	
I-9	Pema	1030	M	A	U	I	
H-9	Pema	3004	M	A	U	I	
H-7	Pema	3200	F	A	14	I	
G-6	Eumi	3241	F	A	22	I	
G-9	Eumi	3305	F	A	U	I	
G-10	Pema	3100	M	A	21	I	
F-9	Pema	4031	F	A	16	I	
F-8	Pema	3003	F	A	U	I	
F-9	Pema	0311	M	A	U	I	
D-5	Pema	1021	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

PROGRESS REPORT

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File No: [illegible]

eet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name ASPEN Grid G Sample Period 8 Trap Night 3

ate, time traps set 7/25/76 1500 Date, time traps checked 7/26/76 1500

st toe clip # used on previous day 4001 Field Analyst(s) Anderson, McGregor

roject 83 QA Check Lum 8-3-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
4	Eumi	1005	F	A	u	I	
H 5	Pema	3002	F	A	u	A	
1 - 4	Clga	3412	F	A	u	V	
I - 9	Eumi	3005	F	A	34	I	
N-9	Clga	4102	F	A	12	I	
G 8	Pema	4003	F	A	24	A	Preg
G 9	Clga	4004	M	A	-	A	
F 9	Eumi	4005	M	A	28	I	
F-6	Pema	1021	M	A	u	A	
E 6	Eumi	2300	F	A	34	I	
E-7	Pema	0311	M	A	u	A	
E 8	Eumi	3010	F	A	u	I	
E 9	Eumi	4010	F	A	32	I	
D 8	Pema	2003	F	A	u	A	nipples swollen

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

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Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 1500 Date, time traps checked 7/26/76 1500

Last toe clip # used on previous day 1105 Field Analyst(s) McGregor, Arvidson

Project 83 QA Check bum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-8	Pema	2003	F	A	18	A	
H-13	Pema	2040	F	A	14	I	
L-12	Pema	1201	M	A	18	A	
J-10	PELO	1102	F	A	20	A	
L-3	Pema	1041	M	A	21	A	
J-6	CLGA	1203	M	A	21	D	
I-11	PEMA	1104	F	A	21	I	
E-1	PEMA	4100	M	A	25	I	

*Taxonomic characters, physical condition of animal, etc.

PROSPECT PEAK REPORT

0175

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1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 830.5.1.220

Grid Name ASPEN Grid # G Project 83 Trap Night 4

Date, time traps set 7/24/76 1500 Date, time traps checked 7/27/76 1500

Last toe clip # used on previous day 4010 Field Analyst(s) ANDREA, McGRATH

Sample period 8 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
E-5	Peromyscus	1023	M	A	U	A	R
F-5	Eumeces	4200	F	A	U	I	R 26 mm. ft.
H-5	Eumeces	4023	M	A	9.1	I	R 28 mm ft
I-5	Peromyscus	3002	M	A	U	A	R
I-8	Peromyscus	4144	M	A	U	A	R
H-7	Peromyscus	3041	M	A	14	I	R
G-6	Peromyscus	4020	M	A	20	A	N
G-7	Peromyscus	4040	M	A	22	A	N
G-9	Peromyscus	4050	F	A	22	A	N Preg
G-10	Eumeces	0102	F	A	U	A	R [illegible]
I	Peromyscus	1403	F	A	16	I	N
F-6	Peromyscus	1405	M	A	20	A	N [illegible]
E-6	Peromyscus	011	M	A	24	A	N
F-7	Eumeces	1024	F	A	34	I	R
F-8	Eumeces	3010	F	A	36	I	R

*Key taxonomic characters, physical condition of animal, etc.

RETURN PROGRESS REPORT

2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD SHEET 83 C.S. 1.220

Grid Name Aspen Grid # G Project 83 Trap Night 4

Date, time traps set 7/26/76 1500 Date, time traps checked 7/27/76 1500

Last toe clip # used on previous day 1203 Field Analyst(s) McGregor, Anderson

Sample period 8 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	ANIMAL ~~Trap~~ Weight	Reprod. Status	Additional* Notes
D-8	CLGA	3030	F	A	U	A	
F-10	Pema	1204	M	J	14	I	New
H-13	CLGA	1034	F	A	U	A	Pre-
J-10	Pema	2020	M	A	U	I	
J-6	CLGA	1205	F	A	U	D	New
I-4	Eumi	1044	F	A	U	I	
H-2	Pema	1105	F	A	U	I	
F-2	Eumi	1001	F	A	38	I	

*Key taxonomic characters, physical condition of animal, etc.

REPORT

File No: 83.C.5.12.30

eet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name Aspen Grid G Sample Period 8 Trap Night 5

ate, time traps set 7/27/76 1500 Date, time traps checked 7/28/76 1530

a toe clip # used on previous day 0111 Field Analyst(s) McGregor Arndtsen

roject 83 QA Check [illegible] 8-3-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-5	Eumi	1024	F	A	32	I	
E-5	Pema	3040	F	A	14	I	[illegible]
E-4	Eumi	0112	M	A	34	I	N [illegible]
M-5	Eumi	0113	F	A	22	I	N
I-5	Pema	4003	F	A	18	A	Preg. or lact.
I-6	Eumi	4014	F	A	40	I	N [illegible]
I-7	Pema	3100	M	A	18	A	
E-9	Pema	2-010	M	A	11	A	
I-9	Eumi	3005	F	A	11	I	
H-8	Clga	0115	M	A	22	A	W[illegible] a scrotal [illegible]
H-7	Pema	3040	M	A	11	I	[illegible]
H-6	Eumi	2-060	F	A	11	I	
G-6	Pema	1030	M	A	11	A	
G-5	Clga	0440	M	A	11	A	04[illegible] lost, [illegible]
G-9	Eumi	0121	M	A	20	I	N
G-10	Pema	0122	M	A	16	I	N
E-9	Eumi	0123	F	J	22	I	N
F-8	Pema	0124	M	A	16	A	N [illegible]
F-7	Pema	1021	M	A	11	A	
F-6	Pema	2013	F	A	11	A	Scrotal [illegible]
E-9	Pema	0311	M	A	11	A	

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 1500 Date, time traps checked 7/28/76 1500

Last toe clip # used on previous day 1205 Field Analyst(s) McGregor, Arndt

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-10	Fumi	3010	F	J	U	I	
H-13	Fumi	4000	F	A	30	A	
J-10	Pema	1301	M	A	20	A	
H-1	Fumi	1302	F	A	34	I	
F-2	Pema	1104	M	J	U	I	
F-4	Pema	1304	F	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

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Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83 C.51-2.1

Grid Name Bottomland meadow Grid # 1 Project 83 Trap Night 1

Date, time traps set 7/23/76 (2000) Date; time traps checked 7/24/76 (07??)

Last toe clip # used on previous day 1023 Field Analyst(s) Rose, Kent

Sample Period 8 QA Check Sims 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal-Trap Weight	Reprod. Status	Additional* Notes
B-1	PEMA	0034N	F	A	15	I	none
C-6	PEMA	0031N	M	A	19	I	none
A-4	PEMA	0025N	M	A	16	I	none
A-7	PEMA	0032N	F	A	16	I	none
B-8	PEMA	0033N	F	A	16	I	none
A-13	PEMA	0034N	M	A	15	I	none
C-12	PEMA	0035N	M	A	17	A	swollen testes
C-10	PEMA	0041N	M	A	19	A	swollen testes
C-11	PEMA	0042N	F	A	19	A	Pregnant
C-8	PEMA	0043N	F	A	20	A	Pregnant

*Key taxonomic characters, physical condition of animal, etc.

REDOP PROGRESS REPORT

File No: 83.C.5.121

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Badgerland Meadow Grid 1 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (0800) Date, time traps checked 7/25/76 (0905)

Last toe clip # used on previous day 0043 Field Analyst(s) Kestrel

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C6	PEMA	0044	M	A	16	I	none
C8	PEMA	0033	F	A	-U	I	none
C11	PEMA	0012	F	A	-U	I	none
C13	EUMI	0045	F	A	33	I	none
A13	PEMA	0051	M	A	17	I	none
A-11	EUMI	0052	M	A	30	I	none
A10	PEMA	0053	M	A	15	I	none
B10	PEMA	0054	F	A	15	I	none
B9	PEMA	0055	M	A	15	I	none
A7	PEMA	0031	F	A	-J	I	definitly a chance 0033 because toe was partially clipped
A3	MIMO	1001	F	J	19	I	none
A4	PEMA	1002	F	A	20	I	preg
B6	PEMA	1003	F	J	14	I	none

taxonomic characters, physical condition of animal, etc.

060175

PROGRESS REPORT

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name [illegible] Grid 1 Sample Period 8 Trap Night 3

Date, time traps set [illegible] Date, time traps checked [illegible]

Last toe clip # used on previous day [illegible] Field Analyst(s) [illegible]

Project [illegible] QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	PEMA	0250	F	A	16	T	—
A-4	EUMI	0410	F	A	20	D	—
A-5	PEMA	0420	F	A	16	I	—
B-6	EUMI	[illegible]	F	A	[illegible]	T	—
A-7	PEMA	0031	F	A	U	A	preg.
C-6	PEMA	0440	F	A	17	T	
C-5	PEMA	0450	F	A	21	A	pregnant
A-13	EUMI	0101	M	A	35	T	none
C-13	PEMA	0102	M	A	16	T	none
C-11	PEMA	0103	M	J	12	T	none
A-11	MIMO	1030	F	A	38	T	none
C-9	PEMA	0104	F	J	11	T	none
[illegible]	[illegible]	0050	M	A	22	A	[illegible]
C-8	PEMA	0106	F	A	18	T	none

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 53.C.51.31

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING F DATA SHEET

Grid Name Bottomland Meadow Grid 7 Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 0830 Date, time traps checked 7/27/76 0820

Last toe clip # used on previous day 1100 Field Analyst(s) DLK, GAR

Project 93 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A13	EUMI	1200	F	A	U	D	new
C13	EUMI	0044	F	A	U	D	—
B8	PEMA	1300	M	A	19	I	new
C8	PEMA	1400	F	A	21	I	new
A9	MIMO	4100	F	J	9	D	new
A7	EUMI	4200	F	J	26	D	new
A4	PEMA	1002	F	A	21	A	preg.
B5	MIMO	4300	F	A	26	I	new

*Key taxonomic characters, physical condition of animal, etc

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070/060175

File No: 83-C-5121

Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Bottomland Meadow Grid 1 Sample Period 2 Trap Night 5

Date, time traps set 4/27/76 (0815) Date, time traps checked 4/28/76 (0800)

Last toe clip # used on previous day 1400 Field Analyst(s) DCK CAR

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A13	EUMI	2002	M	A	U	D	-
C13	PEMA	2001	F	J	8	I	-
A11	MIMO	2003	M	A	U	D	-
C11	PEMA	0042	F	A	U	A	Preg
A9	PEMA	1050	M	A	U	A	swollen testes
A8	PEMA	2004	F	A	16	I	-
B8	PEMA	0033	F	A	U	I	-
C8	PEMA	0350	F	A	20	A	preg
A1	EUMI	4400	F	A	26	D	-
A4	MIMO	1011	F	A	32	D	-
B5	MIMO	1012	F	A	40	D	-
B6	MIMO	1013	F	A	33	D	-
[illegible]	PEMA	1014	F	A	20	A	Preg
B7	PEMA	1400	F	A	U	I	-
C6	EUMI	1015	M	A	26	I	-
C5	PEMA	1021	M	A	18	A	swollen testes

ALL TRAPS AND CARDBOARDS WERE REMOVED 7/28/76

*Key taxonomic characters, physical condition of animal, etc.

DO NOT PROGRESS REPORT

File No: 83-C-5/2.3

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FI DATA SHEET

Grid Name Saybrush (Ind) Grid 2 Sample Period #8 Trap Night 1

Date, time traps set 7/23/76 (0700) Date, time traps checked 7/24/76 (0700)

Last toe clip # used on previous day 0040 / 3001 Field Analyst(s) Sinn

Project 83 QA Check Sinn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	3002	F	A	29	I	
A-2	EUMI	3003	M	A	28	I	
A-3	PEMA	3004	M	A	14	I	
A-4	SPTR	3005	M	A	53	I	
A-7	EUMI	0032	M	A	32	I	
A-8	PEMA	3010	F	A	18	A	
A-10	SPLA	3020	M	J	155	I	
A-11	SPTR	0105	F	A	90	I	Br Cnc
A-12	PEMA	3030	F	A	20	I	
A-13	PEMA	3040	M	A	15	I	
B-10	PEMA	3050	M	A	16	I	
B-8	SPTR	3100	M	I	45	I	
B-6	PEMA	3200	F	A	24	A	pregnant
B-5	EUMI	3300	F	A	U	I	escaped while weighing
	14 captured						

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

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File No: 83C5123

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Id Name Sagebrush (flat) Grid 2 Sample Period #8 Trap Night 1

te, time traps set 7/23/76 (0700) Date, time traps checked 7/24/76 (0700)

toe clip # used on previous day 0340 / 2001 Field Analyst(s) Clark

oject 83 QA Check Lum 8-3-76

pt. c.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
1	EUMY	0001	M	ADULT	30 gm	I	
2	PEMA	0200	F	ADULT	19 gm	A	LACTATING
3	SPTR	0055	F	ADULT	86 gm	I	
4	EUMY	2157	F	ADULT	30 gm	I	SUFFERING FROM
5	SPTR	0350	F	JUV	44 gm	I	
6	EUMY	0030	F	ADULT	32 gm	I	
7	SPTR	0440	F	JUV	43 gm	I	
9	PEMA	0150	M	ADULT	19 gm	I	
10	PEMA	0420	F	JUVENILE	11 gm	I	
C10	PEMA	0310	M	ADULT	21 gm	I	
C11	PEMA	0130	F	ADULT	20 gm	I	LACTATING
C13	PEMA	0430	F	ADULT	16 gm	I	

12 captures

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

File No. 230.5/83

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (flat) Grid # 2 Sample Period # 8 Trap Night 2

Date, time traps set 7/24/76 (1730) Date, time traps checked 7/25/76 (0900)

Last toe clip # used on previous day 0430 / 3300 Field Analyst(s) Sumner

Project 83 QA Check Sumner 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	3002	F	A	U	I	
A-2	SPTR	3400 N	M	J	46	I	
A-3	EUMI	4001 N	F	A	31	I	
A-4	EUMI	4002 N	M	A	33	I	
A-5	SPTR	3100	M	A	U	I	
A-7	SPTR	0350	F	A	U	I	
A-8	EUMI	3300	F	A	U	I	
A-10	EUMI	00(3,5)2	M	A	U	I	third fot missing both 3,5 toe
A-11	SPTR	0105	F	A	69	I	
A-12	EUMI	2154 N	F	A	U	D	
A-13	SPTR	4003 N	M	J	41	I	
B-10	EUMI	4004 N	M	A	31	I	
B-7	SPTR	3005	M	A	U	I	
B-6	SPTR	4005 N	M	J	44	I	
B-5	EUMI	4010 N	M	A	30	I	

15 captured

25/37 = ~~73%~~

*Key taxonomic characters, physical condition of animal, etc.

PROGRESS REPORT

070/060175

File No: 83C.3.123

eet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

:id Name Sagebrush Flat Grid 2 Sample Period 8 Trap Night 2

ıte, time traps set 7/24/76 (0700) Date, time traps checked 7/25/76 (0700)

toe clip # used on previous day 0430/3302 Field Analyst(s) Clark

roject 83 QA Check Lum 8-3-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-1	FUMI	0440	F	A	28	I	Subterior exposure
-2	SPTR	0450	M	A	45	I	
-3	FUMI	0020	F	A	30	I	
-5	SPTR	1001	M	J	42	I	
-6	SPTR	0410	F	A	4	I	
-7	SPTR	0040	M	J	35	I	natural clip probably
-9	FUMI	1008	F	A	30	I	
C-11	SPTR	1003	M	J	35	I	
-12	SPTR	0254	F	A	75	A	Lact.
-13	SPTR	1004	F	J	40	I	
	10 captures						

*Key taxonomic characters, physical condition of animal, etc.

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BBOSP PROGRESS REPORT

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Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA File No: 13C5723

Grid Name Sagebrush Flat Grid 2 Sample Period 6 Trap Night 3

Date, time traps set 7/25/76 (0700) Date, time traps checked 7/26/76 (0700)

Last toe clip # used on previous day 4010/1004 Field Analyst(s) Clark / Sum

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	SPTR	2153	F	J	U	D	DEAD
C-2	SPTR	3400	M	J	U	I	exposure - severe
C-3	Eumi	2152	M	A	U	D	DEAD
C-4	Eumi	1005	F	A	28	I	exposure - severe
B-4	SPTR	3005	M	J	U	I	" "
B-5	SPTR	1001	M	J	U	I	" "
C-6	SPTR	0040	M	J	33	I	" " natural clip
B-6	SPTR	0015	F	A	82	A	swollen vulva
B-7	SPTR	0410	F	J	U	D	DEAD
C-7	PEMA	2255	M	A	18	I	exposure
C-9	Eumi	4004	M	A	U	I	" severe
C-10	Eumi	0102	F	A	32	I	
C-11	SPTR	0254	F	A	72	I	
C-13	SPTR	1003	M	J	U	I	Severe exposure
A-13	PEMA	1010	F	A	14	A	swollen vulva
A-12	Eumi	1000	U	U	U	U	escaped
A-11	Eumi	1002	F	A	U	I	
A-10	Eumi	1002	M	A	U	D	DEAD
A-9	SPTR	0105	F	A	82	I	
A-5	Eumi	0101	F	A	32	I	
A-2	PEMA	2050	F	A	U	I	
A-3	EUMI	3300	F	A	U	I	
A-4	EUMI	1000	M	A	30	I	
	23 captures						

*Key taxonomic characters, physical condition of animal, etc. [illegible] LOSS REPORT

070/060175

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File No: 53c5.123

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (lo) Grid 2 Sample Period 8 Trap Night 4

Date, time traps set 26 July (0900) Date, time traps checked 27 July (0900)

Last toe clip # used on previous day 3399/4010 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	SPTR	0055	F	A	U	I	
A-2	EUMI	3300	F	A	U	I	ONPOUCH
A-4	SPTR	3400	m	A	U	I	
A-6	EUMI	0150	m	A	U	I	
A-7	SPTR	0105	F	A	U	I	
A-11	SPTR	1004	F	A	U	I	
A-12	EUMI	1000	m	A	U	I	
B-10	SPTR	4003	m	J	U	I	
B-6	SPTR	0040	m	A	U	I	
B-5	SPTR	1001	m	A	U	I	

21/33 = > 50% capture

Eumi new/recap = 1/8 = < 30%

sptr " / " = 1/9 = < 30%

Close traps on the 28th

Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: 83-3-23

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (flat) Grid 2 Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (0700) Date, time traps checked 7/27/76

Last toe clip # used on previous day 4010/4010 Field Analyst(s) Clark

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	EUMI	3002	F	A	U	I	Exposed
C-2	EUMI	4100	M	A	30	I	" New
C-3	EUMI	3004	M	A	U	I	
C-4	SPTR	4200	M	J	32	I	New
C-6	EUMI	6030	F	A	32	I	
C-8	SPTR	4005	M	J	U	I	Exposed
C-10	SPTR	0350	F	J	U	I	"
C-11	EUMI	0032	M	A	28	I	" Scrotal
C-12	EUMI	0102	F	A	28	I	" "
B-8	SPLA	3020	M	A	U	I	
B-4	SPTR	3005	M	J	U	I	

*Key taxonomic characters, physical condition of animal, etc.

PROGRESS REPORT

070/060175

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File No: 83.C.5.183

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid 2 Sample Period 8 Trap Night 5

Date, time traps set 7/27/96 (0700) Date, time traps checked 7/28/96 (0700)

Last toe clip # used on previous day 4200/4010 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-96

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	SPTR	3400	m	A	U	I	exposure
A-3	SPTR	0055	F	A	U	I	
A-6	Eumi	1200	m	A	U	I	exposure
A-7	Eumi	0101	F	A	U	I	
A-8	SPLA	4020	m	A	155	I	
A-12	Eumi	1002	F	A	U	I	
A-13	SPTR	0204	F	A	U	I	
B-6	SPTR	0040	m	A	U	I	exposure

*Key taxonomic characters, physical condition of animal, etc.

RDOSP PROGRESS REPORT

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DA T

Grid Name Sagebrush (Wall) Grid 2 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (0730) Date, time traps checked 7/28/76 (0730)

Last toe clip # used on previous day 4010 / 4100 Field Analyst(s) Wade

Project 93 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	SPTR	4300	M	J	42	I	exposure
C-2	SPTR	0410	F	J	U	I	"
C-3	Eum.	4400	M	A	26	I	"
C-6	PEMA	0150	M	A	14	I	"
C-7	Eum.	0030	F	A	30	I	
C-9	SPTR	3100	M	A	U	I	
C-11	SPLA	3020	M	J	100	I	
B-10	SPTR	0105	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.12.7

rid Name [illegible] Grid # 3 Project 82 Trap Night 1

ate, time traps set 23 July 1976 (1300) Date, time traps checked 24 [illegible]

a toe clip # used on previous day 2082 Field Analyst(s) [illegible]

Sample period 8 QA Check bem 8-3-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-12	PEMA	[illegible]	M	A	16	I	-
A-11	PEMA	[illegible]	M	A	16	I	-
A-10	[illegible]	[illegible]	F	A	[illegible]	I	-
A-9	EUMI	2303	F	A	31	I	-
B-8	EUMI	2304	F	A	32	I	-
B-7	PEMA	2305	F	J	12	I	-
A-7	EUMI	2401	F?	A	32	I	-
A-6	PEMA	2015	M	A	16	I	-
B-6	PEMA	2402	F	A	19	I	-
A-5	PEMA	2014	F	A	16	A	[illegible]
A-4	PEMA	2112	M	A	16	A	-
A-3	PEMA	2403	F	J	13	I	-

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.05.12.7

Grid Name Rabbitbrush Grid # 3 Project 53 Trap Night 1

Date, time traps set 7/23/76 (1300) Date, time traps checked 7/24/76 (1350)

Last toe clip # used on previous day 2033 Field Analyst(s) Kestrel

QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Trap Weight	Reprod. Status	Additional* Notes
A-3	EUMI	2033M	M	A	U	I	escaped
A-4	EUMI	2034V	M	A	37	I	none
C-10	[illegible]	2035M	F	A	39	I	none
C-11	PEMA	2041M	M	A	18	I	none
C-10	EUMI	2042M	M	A	34	I	none
C-9	PEMA	[illegible]M	F	A	U	D	dead
C-7	PEMA	[illegible]M	M	A	23	I	none
C-6	PEMA	2045M	F	A	U	D	dead
C-5	EUMI	2051M	M	A	33	I	none
C-4	EUMI	[illegible]52M	M	A	30	I	none
C-3	PEMA	2053M	F	A	19	A	lactating
C-1	PEMA	2303	M	A	18	I	none
A-1	EUMI	2054M	M	A	36	I	none
A-2	EUMI	2055M	M	A	U	D	DEAD

*Key taxonomic characters, physical condition of animal, etc.

File No: 83-05-127

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbit Creek Grid 3 Sample Period 8 Trap Night 2

Date, time traps set 24 July 1976 (1320) Date, time traps checked 25 July 1976 (1[illegible]

Last toe clip # used on previous day 2103 Field Analyst(s) [illegible]

Project 83 QA Check Lrm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	EUMI	2104N	F	A	26	I	—
A-10	EUMI	2105N	M	A	24	I	—
B-8	EUMI	2110	M	A	28	I	—
B-1	PEMA	2120	M	J	14	I	—
A-7	PEMA	1015	M	A	17	I	—
A-6	LEMI	2101	F	A	0	I	—
B-6	PEMA	2102	F	A	0	A	PREG.
A-4	EUMI	2130	F	A	29	I	—
B-4	PEMA	2140	M	J	12	I	—
A-3	SOMA	0310	F	A	21	I	—

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

070/060175

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File No: 83 C 5737

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PAINTBRUSH Grid 3 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1330) Date, time traps checked 7/25/76 (1200)

Last toe clip # used on previous day 2055 Field Analyst(s) Kestrel

Project 23 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C13	EUMI	2101	F	A	U	D	none
C12	EUMI	2102	F	A	32	I	none
C11	EUMI	2103	F	A	33	I	none
C10	EUMI	2044	M	A	U	I	none
C7	EUMI	2104	F	A	32	I	none
C5	PEMA	2105	F	A	15	I	none
C-4	PEMA	2201	M	A	17	I	none
C-3	PEMA	2202	M	A	15	I	none
C-3	PEMA	2203	M	J	5	J	none
C-2	PEMA	2204	F	A	18	A	lactating
C-1	EUMI	2013	M	A	31	A	could be 2010
A-2	EUMI	[illegible]	M	A	U	A	none

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name [illegible] Grid [illegible] Sample Period 8 Trap Night 3

Date, time traps set [illegible] Date, time traps checked [illegible]

Last toe clip # used on previous day [illegible] Field Analyst(s) DCK / [illegible]

Project [illegible] QA Check [illegible] 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	EUMI	[illegible]	M	A	U	I	[illegible]
A-11	PEMA	3071	F	J	14	I	—
A-10	PEMA	[illegible]	F	J	13	I	—
B-9	MUFR	2407	U	A	U	U	—
B-8	EUMI	2401	F	A	U	I	[illegible]
B-7	PEMA	2407	F	A	U	A	[illegible]
B-6	PEMA	[illegible]	F	A	12	A	[illegible]
C 5	EUMI	2022	F	A	18	I	—
C 8	PEMA	2205	M	A	16	I	—
C7	EUMI	2164	F	A	U	I	—
C5	PEMA	3021	M	A	U	I	—
C4	EUMI	2041	M	A	U	I	—
C2	EUMI	2041	M	A	U	I	—
A3	PEMA	3022	F	A	17	A	lactating
A4	PEMA	3023	M	J	14	I	—
B4	EUMI	2052	M	A	U	I	—

*Key taxonomic characters, physical condition of animal, etc.

BBOSP PROGRESS REPORT

070/060175

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Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPI... DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Per 1 8 Trap Night 41

Date, time traps set 7/26/76 (1220) Date, time traps checked 7/27/76 (1210)

Last toe clip # used on previous day 3023 Field Analyst(s) DCK, GAR

Project 83 QA Check Lmm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A13	EUMI	2034	M	A	U	I	—
C11	EUMI	2035	F	A	U	I	—
C10	EUMI	3024	F	A	35	I	new
C7	EUMI	3025	F	A	28	I	new
C6	PEMA	3031	M	A	14	I	new
C5	EUMI	3032	F	A	32	I	new
C4	PEMA	2201	M	A	U	I	—
C3	EUMI	3033	F	A	33	I	—
C2	EUMI	3034	M	A	33	I	—
A3	EUMI	2054	M	A	U	I	—
A12	EUMI	2150	M	A	24	D	new
A10	EUMI	0251	M	A	26	I	—
A9	EUMI	2304	F	A	U	I	—
B8	EUMI	2302	F	A	U	I	—
B7	EUMI	2203	F	A	U	I	—
A7	PEMA	2402	F	A	U	D	—
B6	EUMI	3404	F	A	26	I	new
B5	EUMI	2130	F	A	U	D	—
A5	PEMA	3405	M	J	10	I	new
A4	EUMI	2052	M	A	U	D	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.C5.12.7

Grid Name Rabbitbrush Grid 3 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1230) Date, time traps checked 7/28/76 (1215)

Last toe clip # used on previous day 3035 Field Analyst(s) DCK CAR

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A13	EUMI	0204	F	A	35	I	– New
C10	PEMA	2205	M	A	U	I	–
C9	EUMI	3011	F	A	31	I	– New
C7	EUMI	2303	F	A	U	I	–
C6	PEMA	3042	F	A	U	D	–
C5	EUMI	3043	F	A	33	I	– New
C4	PEMA	3044	F	A	14	I	– New
C3	PEMA	2053	F	A	U	A	lactating
C2	EUMI	3045	M	A	31	I	– New
C1	EUMI	3051	M	A	31	I	– New
A12	EUMI	2035	F	A	U	I	–
A10	EUMI	2042	M	A	U	I	–
B9	EUMI	2210	F	A	32	I	– New
B8	EUMI	2110	M	A	U	I	–
B7	EUMI	3005	M	A	U	I	–
A5	PEMA	2112	M	A	U	A	swollen testes
A4	PEMA	2220	F	A	15	D	– New
A3	EUMI	2230	M	A	27	I	– New

*Key taxonomic characters, physical condition of animal, etc.

070/060175

IBP CT PROGRESS REPORT

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File No: 83-C-5127

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 8 Trap Night 6

Date, time traps set 7/28/76 Date, time traps checked 7/29/76 (1500)

Last toe clip # used on previous day 2230/2051 Field Analyst(s) Clark

Project 83 QA Check bmw 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	PEMA	2240	M	A	14	I	NEW
C-12	Eumi	2103	F	A	U	I	
C-11	Eumi	2250	F	A	30	I	NEW
C-10	Eumi	2310	M	A	28	F	NEW
C-9	Eumi	2305	M	A	U	I	contradicts #'s sheet
C-7	Eumi	3025	F	A	U	I	
C-6	Eumi	4000	M	A	U	D	DEAD - NEW
C-5	PEMA	6100	F	A	U	D	DEAD - NEW
C-4	Eumi	2320	M	A	28	I	NEW
C-3	Eumi	2051	M	A	U	I	
C-2	Eumi	3034	M	A	U	I	
A-3	Eumi	2034	F	A	U	I	
A-4	Eumi	3031	M	A	U	D	DEAD
A-5	Eumi	0042	F	A	30	I	
B-6	Eumi	2021	M	A	28	I	
B-7	Eumi	3034	F	A	U	D	DEAD
B-8	Eumi	2302	F	A	U	I	
A-9	Eumi	2303	F	A	U	D	DEAD
A-11	Eumi	2000	F	A	30	I	
A-12	Eumi	2041	F	A	30	I	contradicts #'s sheet
A-13	Eumi	2034	M	A	U	I	
	Eumi >50%			3/19 = 10%			

*xonomic characters, physical condition of animal, etc.

060175

BIOSP... DATA REPORT

File No: 337-3-8

Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 8 Trap Night 7

Date, time traps set 7/29/76 (1500) Date, time traps checked 7/30/76 (0800)

Last toe clip # used on previous day 2326/2051 Field Analyst(s) Clark

Project 53 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-11	Eumi	3301	F	A	26	I	
C-9	Eumi	3041	F	A	U	I	
C-7	Eumi	3025	F	A	U	I	exposure
C-6	Dipo	2330	F	J	10	I	exposure
C-5	Eumi	3102	F	A	U	I	
C-4	Eumi	3032	F	A	U	I	
C-3	Eumi	2054	M	A	U	I	
C-2	Eumi	3034	M	A	U	I	
A-2	PEMA	2340	F	A	17	A	preg
A-4	Eumi	2330	M	A	U	I	exposure
A-6	PEMA	2350	F	A	13	I	
A-10	Eumi	2304	F	A	U	I	exposure
A-12	Eumi	2041	F	A	U	I	contracting
A-13	Eumi	0204	F	A	36	I	

*Key taxonomic characters, physical condition of animal, etc.

REDD PROCESS REPORT

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 83.C.5.1.2.10

Grid Name PJT/Mixed Brush Grid # 1 Project 83 Trap Night 3

Date, time traps set 7/23/76 (1700) Date, time traps checked 7/24/76 (1340)

Last toe clip # used on previous day 2400 Field Analyst(s) K. Reid

Sample Period 8 QA Check bem 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-10	PEMA	1100	F	A	15	I	none
A-9	PEMA	3001N	F	A	20	I	none
A-8	EUOC	3002N	M	A	216	I	none
A-6	PEMA	3003N	F	A	19	A	lactating
A-3	EUMI	3004N	F	A	39	I	none
A-2	PEMA	3005N	F	A	16	I	none
C-1	PEMA	3010N	M	J	141	I	none
C-2	EUOC	4400	F	A	53	I	none
C-3	PEMA	3020N	F	A	16	I	none
C-4	EUMI	3030N	F	A	33	I	none
B-5	PEMA	3040N	F	J	141	I	none

*Key taxonomic characters, physical condition of animal, etc.

RODENT PROGRESS REPORT

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET 83.C.5.1.2.10

Grid Name D.S / Mint Brush Grid # 4 Project 83 Trap Night 1

Date, time traps set 23 Sept 1976 17[illegible] Date, time traps checked 24 [illegible] (1234)

Last toe clip # used on previous day - Field Analyst(s) C.A.R. + DES

Sample Period 8 QA Check burn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-12	EUGU	[illegible]		A	[illegible]	I	—
A-13	SPLA	4007[illegible]	F	A	172	I	—
C-13	EUMI	1021	M	A	37	A	descended testes
C-12	EUMI	0041	F	A	33	I	—
B-10	EUMI	4003	M	A	26	I	maybe EUGU - S
C-8	EUMI	4041	F	A	37	I	—
B-7	PEMA	4005	M	A	16	A	testes scrotal
C-7	EUGU	4010	F	A	50	I	—
C-6	EUMI	1022	M	A	[illegible]	A	descended testes
B-6	EUMI	4020	F	A	32	I	— escape run

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name P-5/Mixed Brush Grid 4 Sample Period 8 Trap Night 2

Date, time traps set 24 July 1976 (1440) Date, time traps checked 25 July 1976 (1325)

Last toe clip # used on previous day 3090 Field Analyst(s) DCK/GAR

Project 83 4020 QA Check lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-10	PEMA	1100	F	A	U	I	—
A-8	PEMA	3050	F	A	17	I	—
A-7	EUQU	4400	F	A	U	I	—
A-6	EUMI	1042	M	A	30	I	—
A-2	EUMI	3100	M	A	32	I	—
A-13	EUQU	4030	M	J	42	I	—
C-13	EUQU	1001	M	J	46	I	—
B-10	EUMI	4040	M	A	30	I	—
B-9	EUMI	1003	M	A	30	I	—
C-9	PEMA	4050	F	J	14	I	—
B-8	EUQU	3002	M	J	42	I	—
C-8	EUMI	4003	M	J	22	I	—
C-7	EUQU	4050	M	A	48	I	—
B-7	EUMI	1403	F	A	32	I	—
C-5	EUQU	1404	F	A	46	I	—
C-4	EUMI	1405	F	A	32	I	—

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

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File No: 83 C 3 1.2 10

Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Mixed Brush Grid 4 Sample Period 8 Trap Night 2

Date, time traps set 25 July 1976 (1400) Date, time traps checked 26 July 1976 (12

Last toe clip # used on previous day [illegible] Field Analyst(s) CAR - TCK

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	EUQU	4001	M	A	U	I	recap
C-13	EUMI	0031	F	A	20	I	—
C-12	PEMA	0124	F	A	18	I	—
C-10	PEMA	3003	F	A	U	I	recap
B-10	EUMI	2002	F	A	26	I	[illegible]
B-9	SPLA	0125	F	A	170	I	—
C-9	EUQU	0093	F	A	46	I	—
B-8	EUQU	4050	M	A	U	I	recap
C-8	EUQU	4010	F	A	U	I	recap
B-7	EUQU	3002	M	A	U	I	recap
B-6	EUMI	1402	F	A	U	I	recap
C-5	EUQU	0191	M	A	45	I	—
B-10	PEMA	1100	F	A	U	I	recap
A-10	PEMA	3001	F	A	U	I	recap
A-9	EUMI	1105	M	A	U	D	—
A-8	PEMA	3050	F	A	U	I	—
A-7	EUQU	1404	M	A	U	I	[illegible] chance other
A-6	PEMA	1701	M	J	13	I	J —
A-4	PEMA	1702	M	J	17	I	—
A-2	EUMI	3004	F	A	U	I	recap
C-1	PEMA	3010	M	A	U	I	recap
C-2	PEMA	1203	F	A	24	I	—
C-3	EUMI	1104	M	A	36	I	—
C-4	EUMI	3030	F	A	U	I	definitely a ♀
B-4	EUMI	4020	F	A	U	I	
B-5	EUMI	1405	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

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Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83C5L3.10

Grid Name PT/Mixed Rock Grid 21 Sample Period 8 Trap Night 21

Date, time traps set 7/26/76 (1325) Date, time traps checked 7/27/76 (1335)

Last toe clip # used on previous day 1203 Field Analyst(s) DCK, GAR

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A10	EUMI	1204	M	A	25	I	new
A9	EUMI	41040	F	A	U	I	change sex to I
A8	EUMI	1404	M	A	U	I	—
A6	EUMI	1403	M	A	U	I	—
A2	EUMI	1203	F	A	U	I	—
C1	EUMI	1205	F	A	32	I	new
C2	EUMI	0410	M	A	33	I	—
C4	EUQU	1301	M	A	45	I	—
B4	EUMI	1104	M	A	U	I	—
B5	PEMA	1201	M	A	U	I	—
A12	EUMI	1031	M	A	U	I	—
A13	EUMI	1044	M	A	U	I	—
C13	EUMI	0041	F	A	U	I	—
C11	EUQU	0111	F	A	U	I	NEW
B10	EUMI	1003	F	A	U	I	—
C8	PEMA	3001	F	A	U	I	—
B6	EUMI	4020	F	A	U	I	—
C5	PEMA	4455	F	A	U	I	recap

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83C51210

Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ-Mixed Brush Grid 4 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1330) Date, time traps checked 7/28/76 (1310)

Last toe clip # used on previous day 1301 Field Analyst(s) DCK, GAR

Project 73 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A10	SPLA	0135	F	A	U	I	—
A9	EUMI	1302	M	A	32	I	—
A7	EUMI	1405	F	A	U	I	—
A6	EUQU	0110	M	A	U	I	—
A2	EUMI	1303	F	A	30	I	—
C1	EUMI	3002	F	A	U	I	—
C2	EUMI	1304	M	A	31	I	—
C4	EUMI	3100	M	A	U	I	—
B5	EUMI	1305	M	A	29	I	—
A13	EUQU	0112	M	A	46	I	—
C13	EUMI	0041	F	A	U	I	—
B9	EUMI	1023	M	A	U	A	swollen testes
C7	EUMI	1204	M	A	U	I	—
B7	PEMA	0113	F	A	15	I	—
B6	EUMI	1020	F	A	U	I	—
C5	EUMI	0033	M	A	U	I	—

ALL CARCASSES PULLED AND TRAPS MADE INOPERABLE 7/28/76

*Key taxonomic characters, physical condition of animal, etc.

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File No: 83 C.5 / 311

Sheet 1 of 1 SMALL M[illegible] L LIVE TRAPPING [illegible] D DATA SH[illegible] ET

Grid Name Mixed brush (N) Grid 5 Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1100) Date, time traps checked 7/24/76 (1100)

Last toe clip # used on previous day 3322/1022 Field Analyst(s) Sm

Project 83 QA Check Sm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	2010	M	A	36	I	
A-3	EUMI	0321	M	A	34	I	
A-4	EUMI	2050	M	A	U	D	
A-6	EUMI	1023	F	A	32	I	
A-7	EUMI	4200	M	A	33	I	
A-9	EUMI	1004	M	A	35	I	
A-10	EUMI	0101	F	A	30	I	
A-11	EUMI	1022	M	A	33	I	
A-12	EUMI	1024	F	A	34	I	
A-13	EUMI	0430	F	A	35	I	
B-10	EUMI	1001	M	A	32	I	
B-7	EUMI	1025	F	A	36	I	
B-4	EUMI	0021	F	A	32	I	
C-2	EUMI	1200	M	A	29	I	
C-3	EUMI	4300	M	A	29	I	
C-4	EUMI	3003	F	A	27	I	
C-5	EUQU	3004	M	A	48	A	swollen testes
C-6	PEMA	3020	M	A	16	A	" "
C-8	EUMI	0003	F	A	33	I	
C-10	EUMI	0052	F	A	30	A	lactating
C-11	EUMI	3000	M	A	28	I	
C-12	EUMI	0230	F	A	U	D	
C-13	EUMI	1012	F	A	30	I	
B-8	SPLA	3030	F	A	136	I	
B-5	PEMA	2300	M	A	20	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 130.5/811

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed brush (N) Grid 5 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1100) Date, time traps checked 7/25/76 (1100)

Last toe clip # used on previous day 3030/1025 Field Analyst(s) Sum

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI.	2010	M	A	U	I	
A-2	EUMI	1031	m	A	30	I	
A-4	EUMI	3003	F	A	U	I	
A-6	PEMA	2300	m	A	U	I	
A-9	EUMI	1032	M	A	49	I	
A-11	EUMI	1033	F	A	28	I	
A-12	EUMI	1034	F	A	28	I	
A-3	EUMI	1120	F	A	30	I	
B-10	EUMI	0101	F	A	33	I	
B-5	EUMI	1030	F	A	31	I	
B-7	EUMI	1034	M	A	30	I	
B-8	PEMA	1035	M	J	11	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING F[illegible] D DATA SHEET File No: 83C51-211

Grid Name Mixed Forest (N) Grid 5 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1100) Date, time traps checked 7/25/76 (1100)

Last toe clip # used on previous day 3030/1025 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	Eumi	3040	M	A	30	I	
C-2	Eumi	3050	M	A	25	I	ex opossum
C-3	Eumi	1700	M	A	26	I	
C-4	Eumi	0321	M	A	27	I	
C-5	Eumi	1021	M	A	28	I	ex-shrew
C-6	Eumi	3100	M	A	24	I	
C-7	Eumi	1023	F	A	26	I	
C-8	Eumi	4200	M	A	26	I	
C-9	Eumi	3200	M	A	24	I	
C-11	Eumi	3300	M	A	26	I	
C-12	Eumi	3400	M	A	25	I	
C-13	Eumi	1022	M	A	24	I	
B-6	Eumi	1004	M	A	26	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83 0 5 1 3 11

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Reed Brush (N) Grid 5 Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1100) Date, time traps checked 7/26/76 (1100)

Last toe clip # used on previous day 3400/1035 Field Analyst(s) Sann

Project 83 QA Check Sann 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	1041	F	A	20	A	
A-2	Microtus fucuida	one back foot?	U	A	U	U	released unharmed
A-4	EUMI	1034	m	A	U	I	
A-7	SPLA	1042	F	A	157	I	
A-9	EUMI	1004	m	A	U	I	
A-11	EUMI	0013	F	A	U	I	
A-12	EUMI	0052	F	A	U	I	
A-13	EUMI	0430	F	A	U	I	
B-10	EUMI	0101	F	A	U	I	
B-4	EUMI	1200	M	A	U	I	exposure
C-5	PEMA	4455	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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File No: 83.C 5 1.3.11

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FI DATA SHEET

Grid Name Mud Bench (N) Grid 5 Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1100) Date, time traps checked 7/26/76 (1100)

Last toe clip # used on previous day 3400/1035 Field Analyst(s) C Orl

Project 83 QA Check brm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	FUQU	4001	F	A	42	I	
C-3	TUMI	0003	F	A	31	I	
C-5	TUMI	4002	F	A	32	I	
C-8	PEMA	4003	F	A	17	A	swollen nipples
C-9	EUMI	3200	M	A	U	D	DEAD
C-11	PEMA	4004	M	A	16	I	
C-11	PEMA	0154	F	A	U	D	DEAD, killed by 4004, same trap
C-12	EUMI	3100	M	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5.1.2.11

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush (W) Grid 5 Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1120) Date, time traps checked 7/27/76 (1100)

Last toe clip # used on previous day 4004/1042 Field Analyst(s) Sumy

Project 83 QA Check Sumy 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	1043	F	J	9	I	exposure Wear
A-2	EUMI	3003	F	A	U	I	
A-3	EUMI	4300	m	A	U	I	
A-4	EUMI	1004	m	A	U	I	
A-6	EUMI	1025	F	A	U	I	
A-11	EUMI	0430	F	A	U	I	
B-10	EUMI	0101	F	A	U	I	
B-7	PEMA	2300	m	A	U	I	
B-6	EUMI	1030	F	A	U	I	exposure
B-5	EUMI	1041	m	A	31	I	Wear

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING DATA SHEET File No: 13-C-5-18-11

Grid Name Mixed Brush (N) Grid 5 Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1100) Date, time traps checked 7/27/76 (1100)

Last toe clip # used on previous day 4024/1042 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	Eumi	2010	M	A	27	T	
C-4	Eumi	0003	F	A	28	I	
C-5	Eumi	4005	F	A	32	I	NEW
C-9	Eumi	1200	m	A	28	I	
C-11	Eumi	3010	m	A	U	I	
C-12	Eumi	3100	m	A	26	I	
C-13	PEMA	4010	F	A	17	I	NEW
A-1	Eumi	4020	m	A	32	I	NEW

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83.5.1.2 11

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed brush (N) Grid 5 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1100) Date, time traps checked 7/28/76 (1130)

Last toe clip # used on previous day 1044 Field Analyst(s) Sweet

Project 83 QA Check Brm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	SPLA	1045	m	A	188	I	
A-9	EUQU	1033	F	A	U	I	
A-10	SPLA	1051	F	A	157	I	
A-12	EUMI	0430	F	A	U	I	
A-13	EUMI	1024	F	A	U	I	
B-10	EUMI	1004	m	A	U	I	
B-8	EUMI	1044	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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Sheet 2 of 2 File No: 83.C.5.1.2U

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Beach Grid 5 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1100) Date, time traps checked 7/28/76 (1130)

Last toe clip # used on previous day 4533 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	Eumi	2153	m	A	U	D	DF:A
C-5	Eumi	4030	M	A	28	I	NEW
C-9	DF MA	2100	M	A	U	D	DF:A
C-10	Eumi	3100	m	A	U	I	~~expired~~ Dead
C-11	SPLA	3030	F	A	U	I	
B-6	Eumi	4040	m	A	24	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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Sheet 1 of 2 — File No: 83 C 5 1 2 12

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P.-J./ Sage Grid 6 Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1500) Date, time traps checked 7/24/76 (1500)

Last toe clip # used on previous day 3004 / 1015 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	EUMI	1021	M	A	30	I	
C-4	PEMA	1022	M	A	19	I	
C-5	EUMI	1023	M	A	28	I	
C-6	PEMA	1005	M	A	U	D	
C-7	PEMA	1024	F	A	U	D	
C-8	PEMA	0104	F	A	21	I	
C-10	EUMI	1025	F	A	30	I	
C-11	EUMI	1040	M	A	32	I	
C-13	PEMA	2004	M	A	18	I	
B-10	EUMI	2050	F	A	31	I	
B-8	EUQU	1031	M	A	49	I	
B-7	PEMA	1032	F	A	17	I	
B-6	EUMI	0402	F	A	34	I	
B-5	EUMI	1033	M	A	29	I	

*Key taxonomic characters, physical condition of animal, etc.

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83C-5123.12

Grid Name P-J/Sage Grid 6 Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 (1550) Date, time traps checked 7/24/76 (1500)

Last toe clip # used on previous day 3004/1015 Field Analyst(s) Clark

Project E3 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	0401	F	A	34	I	
A-3	PEMA	4100	m	A	30	I	
A-4	PEMA	3005	m	J	13	I	
A-5	PEMA	2154	F	A	U	D	Dead
A-6	PEMA	0153	m	A	U	D	Dead
A-7	PEMA	2152	F	A	U	D	DEAD
A-8	PEMA	3010	F	J	12	I	
A-9	PEMA	2010	m	A	15	I	
A-10	PEMA	3020	m	A	30	I	
A-11	PEMA	1011	m	A	30	I	
A-12	PEMA	2000	F	A	14	I	
A-13	PEMA	3030	F	J	10	I	

*Key taxonomic characters, physical condition of animal, etc.

PROGRESS REPORT

070/060175

File No: 83.C.5.12.12

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P.J / Sage Grid 6 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1500) Date, time traps checked 7/25/76 (1500)

Last toe clip # used on previous day 3030/1032 Field Analyst(s) Sun

Project 83 QA Check Sun 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-4	EUQU	1133	F	A	51	I	
C-6	PEMA	2004	F	A	17	I	
C-7	PEMA	1022	m	A	U	I	
C-8	EUQU	1034	m	A	57	I	
C-10	EUMI	0400	m	A	30	I	could be natural campist.
C-11	EUMI	2200	m	A	29	I	
C-13	EUMI	1035	F	A	32	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 83.05/3.12

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPIN FIELD DATA SHEET

Grid Name P-T/Sage Grid 6 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 (1500) Date, time traps checked 7/25/76 (1500)

Last toe clip # used on previous day 3030/1032 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	1533	m	A	41	I	
A-2	EUMI	3040	m	A	42	I	exposure
A-3	EUMI	3050	F	A	26	I	" "
A-4	EUMI	4100	m	A	27	I	"
A-9	PEMA	3100	F	A	17	A	swollen vulva
A9	PEMA	3200	F	A	16	A	" "
A-10	EUMI	1011	m	A	26	I	exposure
A-11	EUMI	1002	F	A	32	I	
A-12	EUMI	3300	F	A	30	A	swollen vulva, exposure
B-7	PEMA	2005	m	A	14	I	
B-8	PEMA	0104	F	A	19	A	swollen vulva
B-7	PEMA	3400	m	A	13	I	
B-6	PEMA	4101	m	A	10	I	
B-5	EUMI	4002	m	A	38	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.C.5.1.3

Grid Name P-5/Sage Grid 6 Sample Period 5 Trap Night 3

Date, time traps set 7/25/76 (1500) Date, time traps checked 7/26/76 (1500)

Last toe clip # used on previous day 4000/1035 Field Analyst(s) Sam

Project 83 QA Check Sam 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-2	EUQU	1041	m	A	49	I	Sapporus
C-3	PEMA	1042	F	A	18	A	
C-4	EUMI	1033	m	A	U	I	
C-6	PEMA	4300	F	A	U	I	
C-7	EUMI	0402	F	A	U	I	
C-8	PEMA	1043	F	A	19	I	
C-11	PEMA	1044	m	A	18	I	
B-10	PEMA	2005	m	A	U	I	
B-9	PEMA	1045	F	J	12	I	
B-7	PEMA	1051	m	A	20	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

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File No: 83.C.5.1.3.12

Sheet ___ of ___ SMALL MAMMAL LIVE TRAPPING FIELD DA HEET

Grid Name P.J./Coop Grid 6 Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 (1500) Date, time traps checked 7/26/76 (1500)

Last toe clip # used on previous day 4002/1035 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI.	0401	F	A	32	I	
M-5	EUMI	4003	F	A	27	I	exposure
A-6	PEMA	4004	F	A	15	I	
A-7	PEAD	0204	M	A	12	I	
A-9	PEMI	3200	F	A	4	I	
A-10	SPLA	0240	M	A	186	I	
A-11	EUMI	3020	M	A	11	I	
A-13	PEMA	2002	M	A	19	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

RBOSP PROGRESS REPORT

File No: 83.C.5.1.2.12

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 8 Trap Night 4

Date, time traps set 7/26/76 (1600) Date, time traps checked 7/27/76 (1600)

Last toe clip # used on previous day 4441051 Field Analyst(s) Sumy

Project 83 QA Check Sumy 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-4	PEMA	1022	m	A	U	I	
C-6	PEMA	0104	F	A	U	D	dead
C-7	PEMA	1052	m	A	16	I	New
C-10	EUMI	2050	F	A	U	I	
C-11	EUMI	0400	m	A	U	I	could be hat. amp.
B-8	EUMI	0402	F	A	U	I	
B-6	EUMI	1033	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83.C.5.1.2.12

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ / Sage Grid 6 Sample Perf 8 Trap Night 4

Date, time traps set 7/26/76 (1630) Date, time traps checked 7/27/76 (1600)

Last toe clip # used on previous day 1034 / 1051 Field Analyst(s) Clark

Project 83 QA Check hrm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	PEMA	0003	m	A	16	I	
A-3	PEMA	4005	F	J	11	I	NEW
A-3	PEMA	1005	m	A	14	I	
A-4	PEMA	4010	F	A	13	I	NEW
A-6	PEMA	4020	m	A	18	I	NEW
A-8	PEMA	4030	m	A	29	I	NEW
A-9	PEMA	4040	F	A	136	I	NEW
A-10	PEMA	2000	F	A	13	I	
A-11	PEMA	4050	F	J	11	I	NEW
A-12	PEMA	1035	F	A	14	I	

*Key taxonomic characters, physical condition of animal, etc.

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070/060175

File No: 83C5L2122

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1500) Date, time traps checked 7/28/76 (1500)

Last toe clip # used on previous day 1252 Field Analyst(s) Sum

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-5	EUMI	0402	F	A	U	I	
C-11	EUMI	1035	F	A	U	I	
C-13	EUMI	1002	F	A	U	I	
B-9	PEMA	3200	F	A	U	D	dead
B-8	EUMI	4020	M	A	U	I	
B-6	EUQU	1053	F	A	52	I	
B-4	EUQU	1041	M	A	U	I	
	>50%		new/recap	= 2/10	=	20%	EUMI
			new/new	1/3	=	33%	PEMA
				traps	stay	open	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83.C.5.1.3.12

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name DJ/Calf Grid 6 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 (1500) Date, time traps checked 7/28/76 (1500)

Last toe clip # used on previous day 4050/1057 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	Eumi	1033	M	A	U	D	DEAD
A-2	Eumi	1415	F	A	U	D	DEAD
A-3	Eumi	0405	F	A	30	I	exposure NEW
A-4	Eumi	1403	M	A	31	I	NEW
A-6	PEMA	1421	F	J	U	D	NEW DEAD
A-10	PEMA	4010	F	J	U	D	DEAD
A-7	Eumi	4003	F	A	U	D	DEAD
A-9	Eumi	4030	M	A	U	I	exposure
A-10	Eumi	3020	M	A	U	I	
A-11	PEMA	2b0	M	A	U	D	DEAD
A-12	Eumi	0004	M	A	28	I	

*Key taxonomic characters, physical condition of animal, etc.

RBCSP PROGRESS REPORT

070/060175

File No: 83.C.5.1.2.12

Sheet 1 of 1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P.T/Sage Grid 6 Sample Period 2 Trap Night 6

Date, time traps set 7/28/76 (1500) Date, time traps checked 7/29/76 (1500)

Last toe clip # used on previous day 1403 Field Analyst(s) Clark

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-4	Eumi	1041	M	A	U	I	
C-11	Eumi	2000	F	A	U	D	DEAD
C-13	Eumi	1412	F	A	U	D	DEAD - NEW
A-12	PEMA	2005	M	A	U	D	DAAD
A-11	Eumi	1411	F	A	U	D	DEAD NEW
A-8	Eumi	4020	M	A	U	D	DAAD
B-8	Eumi	1085	F	A	U	I	
B-7	Eumi	0402	F	A	U	D	DEAD
B-6	PEMA	2004	F	A	17	A	swollen vulva
A-1	Eumi	1355	F	A	U	D	DEAD - NEW
		< 50%			Close		

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROJECT

070/060175

Sheet 1 of 1 File No: 53 C 8 1.2 12

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 8 Trap Night 7

Date, time traps set 7/29/76 (1500) Date, time traps checked 7/30/76 (0100)

Last toe clip # used on previous day 1403 Field Analyst(s) Clark

Project 83 QA Check Chew 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-8	EUOU	1405	F	A	40	I	
C-13	PEMA	0400	F	A	28	I	
A-12	PEMA	1035	F	A	u	I	
A-11	PEMA	3020	M	A	u	I	
B-9	SPLA	4040	F	A	u	I	
A-8	PEMA	3100	F	A	u	I	
B-8	EUOU	1034	M	A	u	I	
A-7	PEMA	0411	M	A	24	I	
A-5	PEMA	1040	M	A	30	I	
B-4	PEMA	4300	F	A	17	I	
A-2	PEMA	1051	M	J	u	I	

*axonomic characters, physical condition of animal, etc.

RROSP PROGRESS REPORT

File No: 83.C.51.213

Sheet 1 of 2 — SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name upland meadow Grid 7 Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 1800 Date, time traps checked 7/24/76 2100

Last toe clip # used on previous day 0053 Field Analyst(s) McGregor / Arndsten

Project 83 QA Check Lum 9-2-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	PEMA	0054	F	A	18	I	
C-12	PEMA	0055	F	A	16	I	
C-12	PEMA	0101	M	A	18	I	
C-9	EUMI	0102	M	A	28	I	
B-10	PEMA	1030	M	A	U	D	
B-7	PEMA	1040	M	A	16	I	
C-7	PEMA	1050	M	A	U	D	
C-6	EUMI	1200	F	A	30	I	
B-6	EUMI	1300	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

BOOSP PROGRESS REPORT

070/060175

Sheet 2 of 2 File No: 83-51-213

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 8 Trap Night 1

Date, time traps set 7/23/76 1800 Date, time traps checked 7/24/76 2100

Last toe clip # used on previous day 0240 Field Analyst(s) McGregor / Anderson

Project 83 QA Check Lum 8-2-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Pema	0250	F	A	18	A	Lactating
A3	Pema	0310	M	A	18	A	
A5	Eumi	0320	F	A	30	I	
~~A6~~	~~Pema~~						
A8	Pema						
A9	2 Eumi						

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

File No: 83C51-3-13

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland meadow Grid 7 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 2030 Date, time traps checked 7/25/76 1200

Last toe clip # used on previous day 0320 Field Analyst(s) D. McGregor P Arnold

Project 83 QA Check hm 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	Pcma	0330	M	A	14	I	
A-1	Pcma	0340	M	A	14	I	
A-2	Pcma	[illegible]	M	A	18	I	
A-3	Pcma	0460	M	A	14	I	
A-4	Fumi	0323	F	A	30	I	
A-6	Fumi	0424	M	A	30	A	
A-7	Pcma	0420	F	A	12	I	
A-8	Pcma	0446	M	A	16	I	
A-9	Pcma	0465	F	A	18	I	Head stuck
A-10	Fumi	1201	M	A	34	A	
A-11	Pcma	1202	M	A	18	I	
							(10141
A-12	Pcma	10141	F	A		A	pregnant missing 16+ fetus
A-13	Pcma	1203	M	A	14	A	

*Key taxonomic characters, physical condition of animal, etc.

[illegible] PROGRESS REPORT

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: IBC 51-313

Grid Name Upland Meadow Grid 7 Sample Period 8 Trap Night 2

Date, time traps set 7/24/76 2030 Date, time traps checked 7/25/76 1900

Last toe clip # used on previous day 1300 Field Analyst(s) McGregor, Arndt, et al

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	Pema	2001	F	A	16	L	
C-13	Pemo	2002	F	A	14	T	
C-12	Pema	2003	F	A	20	T	
B-9	Pema	2003	M	A	22	T	
C-9	Pema	2004	M	A	16	A	
B-7	Pema	2005	F	A	20	A	
C-7	Pema	2010	F	A	14	T	
C-6	Pema	2013	M	A	22	T	
B-6	Pema	2020	M	A	30	T	
B-5	Pema	2030	M	A	U	D	
B-4	Pemo	2040	F	A	U	A	

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

File No: 830.5.12.13

Sheet 1 of 2 — SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Island Meadow Grid 7 Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 1850 Date, time traps checked 7/26/76 1800

Last toe clip # used on previous day 1003 Field Analyst(s) Arndt Sen, Mc Gregor

Project 83 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	Eumi	1300	M	A	u	I	
A-2	Pema	00141	M	A	u	A	[illegible]
A-3	Pema	1104	M	A	18	I	[illegible]
A-3	Pema	1005	M	A	16	I	" " "
A-4	Eumi	1010	F	A	30	I	
A-5	Eumi	1020	M	A	30	A	
A-7	Pema	4100	F	A	16	I	
A-9	Eumi	4200	M	A	34	A	
A-10	Pema	4300	F	A	16	I	double with fine relay
A-11	Pema	4400	F	A	22	A	lactating or [illegible]

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. [illegible]

Grid Name Upland Meadow Grid 7 Sample Period 8 Trap Night 3

Date, time traps set 7/25/76 1830 Date, time traps checked 7/26/76 1800

Last toe clip # used on previous day 2040 Field Analyst(s) McVicker, Arvidsen

Project 53 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	Pema	0054	F	A	14	I	
C-12	Pema	2050	F	A	18	I	
B-9	Pema	2100	M	J	14	I	
C-11	PEMA	2300	F	A	14	I	
C-8	Pema	2300	M	J	14	I	
B-8	Pema	2400	F	A	14	I	
A-7	Pema	3001	M	A	18	I	
B-6	Pema	0320	M	A	14	I	
B-5	Pema	3002	M	J	14	I	
C-5	Pema	0051	F	A	16	I	
C-2	Pema	3003	M	A	16	I	
C-1	Pema	3004	M	A	14	D	

*Key taxonomic characters, physical condition of animal, etc.

RBOOP PROGRESS REPORT

070/060175

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1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

83.C.5.1.2.13

Grid Name Upland Meadow Grid # 7 Project 83 Trap Night 4

Date, time traps set 7/26/76 1700 Date, time traps checked 7/27/76 1700

Last toe clip # used on previous day 4400 Field Analyst(s) Arndtsen, McGregor

Sample period 8 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal ~~Trap~~ Weight	Reprod. Status	Additional* Notes
A-2	Pema	1011	F	A	15	D	N
A-3	Pema	1300	M	A	14	A	R
A-3	Pema	1012	F	A	16	I	N
A-4	Pema	1013	M	A	30	A	N
A-5	Pema	1014	M	A	18	I	N
A-6	Pema	1015	F	A	12	I	N
A-7	Pema	1021	M	A	16	I	N
A-9	Pema	1022	M	A	18	I	N
A-10	Pema	1023	M	I	14	I	N
A-11	Pema	1002	M	A	20	A	R
A-12	Pema	1024	F	A	16	A	N
A-13	Pema	1025	M	A	21	A	N

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

2 of 2

SMALL MAMMAL LIVE TRAPPI[illegible]ELD DATA SHEET 83.C.5.1.2.13

Grid Name Upland Meadow Grid # 7 Project 83 Trap Night 4

Date, time traps set 7/26/76 1700 Date, time traps checked 7/27/76 1700

Last toe clip # used on previous day 3005 Field Analyst(s) McGregor, Hradsky

Sample period 8 QA Check Lynn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	ANIMAL Trap Weight	Reprod. Status	Additional* Notes
C-13	Pema	2001	F	A	U	I	
B-10	Pema	3005	M	A	14	T	New
B-9	Eumi	4200	M	A	U	D	
B-7	Pema	2005	F	A	U	I	
B-6	Pema	3005	M	A	U	D	
B-5	Pema	3010	F	J	12	T	New
C-5	Pema	0022	M	A	U	D	
C-1	Pema	0130	M	A	U	D	

*Key taxonomic characters, physical condition of animal, etc.

[illegible] REPORT

File No: 83 05.1.3.13

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 8 Trap Night 5

Date, time traps set 7/27/76 1700 Date, time traps checked 7/28/76 1700

Last toe clip # used on previous day 1025 Field Analyst(s) Arndtsen, McGregor

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	Pema	0350	M	A	"	D	
A-3	Pema	1340	M	A	"	D	Pumpkin seeds
A-4	Pema	2040	M	A	"	D	" "
A-5	Pema	1031	M	J	14	I	N
A-6	Pema	1015	F	A	"	D	" " "
A-7	Pema	1032	F	A	"	D	N
A-7	Pema	1033	M	A	"	D	N
A-8	Pema	1043	M	A	"	D	N " " "
A-9	Pema	0450	F	A	"	A	lact
A-10	Pema	1034	F	A	14	A	N
A-10	Pema	1035	F	A	18	A	N
A-11	Pema	1041	M	A	"	D	N " " "
A-11	Pema	1042	M	A	"	D	N
A-12	Pema	1002	M	A	"	D	" " "
A-13	Spla	1041	F	A	12	I	Weight ear pinnae gone

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

Sheet 2 of 2 File No: 83C5L2 13

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 6 Trap Night 5

Date, time traps set 7/27/76 1700 Date, time traps checked 7/28/76 1700

Last toe clip # used on previous day 3010 Field Analyst(s) McGregor, Arndt

Project 83 QA Check Lynn 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	Pema	2002	F	A	U	I	
B-9	Pema	2100	M	A	U	D	
C-8	Eumi	1200	F	A	U	I	
B-8	Eumi	3020	F	A	30	I	New
B-7	Pema	2005	F	A	U	D	
C-7	Pema	2003	M	A	U	D	
B-6	Eumi	3030	F	A	30	I	New
B-5	Pema	0403	M	A	U	D	
C-5	Eumi	0323	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

070/060175

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name [illegible] Grid 7 Sample Period 8 Trap Night 6

Date, time traps set 7/28/76 1700 Date, time traps checked 7/29/76 1700

Last toe clip # used on previous day 3030 Field Analyst(s) McGregor

Project 83 QA Check Sum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	Eumi	3020	F	A	U	I	
A-2	Pema	3040	F	A	U	D	New
A-3	Eumi	3050	M	A	30	I	
A-4	Pema	3100	M	A	U	D	
A-4	Pema	3200	M	A	U	D	
A-5	Eumi	1020	M	A	U	I	
A-6	Pema	3300	F	A	U	D	
A-7	Pema	4100	F	A	U	I	
A-8	Pema	0440	M	A	U	D	
A-9	Pema	0441	F	A	16	I	New
A-10	Pema	1123	M	A	U	D	
A-11	Pema	2400	F	A	16	I	New
A-12	Pema	4001	F	A	16	I	New
A-13	Pema	4002	M	A	20	I	New
C-13	Pema	2002	F	A	U	I	
B-10	Eumi	3030	F	A	U	I	
B-9	Pema	1022	M	A	U	I	
C-8	Eumi	4003	F	A	U	I	
B-7	Pema	4004	M	A	14	I	New
A-7	Pema	2010	M	A	U	D	
C-5	Eumi	4005	F	A	30	I	New
C-2	Eumi	4010	M	A	U	D	New

*Key taxonomic characters, physical condition of animal, etc.

070/060175

SMALL MAMMAL LIVE TRAP FIELD DATA SHEET B.C.S.1.2 13

Grid Name Upland Meadow Grid # 7 Project 83 Trap Night 7

Date, time traps set 7/29/76 1300 Date, time traps checked 7/30/76 1300

Last toe clip # used on previous day 4010 Field Analyst(s) McGregor

Sample period 8 QA Check Lum 8-3-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Trap Weight	Reprod. Status	Additional* Notes
A-1	Pema	4020	F	A	20	N	Preg.
A-2	Eumi	1013	M	A	U	D	
A-3	Pema	0323	F	A	U	I	
A-4	Pema	4030	M	A	U	D	
A-5	Pema	1014	M	A	U	I	
A-5	Pema	1031	M	A	U	I	
A-6	Eumi	0420	M	A	U	I	
A-7	Eumi	1300	M	A	U	I	
A-9	Pema	1022	M	A	U	I	
B-9	Pema	4040	F	J	12	I	
B-7	Pema	4100	F	A	U	D	
B-5	Pema	4050	F	A	U	D	
C-5	Eumi	0320	M	A	U	I	
C-2	Eumi	1045	F	A	U	D	

*Key taxonomic characters, physical condition of animal, etc.

RBOSP PROGRESS REPORT

BIENNIAL NIGHT ROAD CENSUS DATA AND SUMMARY SHEET

Project 83 (Reese C-a) Transect # 1 Date 25 June, 1976 Sunset Time 2045

Time Begun 21:36 Temp. 19°C Time Completed 02:20 Temp. 17°C Cloud Cover 20%

Starting Point on map Finish Point on map Length of Transect 30 mi

Observable Distance Estimates up to 25 meters.

Mile 1 12m; 2 11; 3 9; 4 7; 5 9; 6 9; 7 12; 8 6; 9 8; 10 9;

11 12; 12 9; 13 10; 14 9; 15 11; 16 15; 17 6; 18 10; 19 9; 20 11;

21 11; 22 10; 23 8; 24 7; 25 7; 26 5; 27 4; 28 7; 29 6; 30 7.

Odometer Reading	Species Observed	Habitat	Odometer Reading	Species Observed	Habitat
00.2	start.				
8.6	Sylvilagus sp.	P-J North			
13.4	Canis latrans	edge sage			
20.6	Sylvilagus sp	sagebrush			
21.6	Sylvilagus sp	sagebrush			
22.1	Lepus townsendii	sagebrush.			
30.2	end				

1. $\bar{x}$ est. dist. 8.87 m. x transect length 48270 m. = 428,155 sq. m. of coverage.

2. $\frac{\text{sq. m. coverage}}{\text{sq. m./hectare}} = \frac{428155}{10{,}000} = 42.82$ hectares; $N = \frac{\text{number sited}}{\text{total hectares}} =$ _____/hectare.

Species	No. Sighted	Hectares Covered	Pop. Est./Hectare
Sylvilagus sp.	3	42.82	0.07
Lepus townsendii	1	42.82	0.02

054/060175

7-1-76

MAMMAL NIGHT ROAD CENSUS DATA AND SUMMARY SHEET

83.C.5.42

RBOSP - Ca

Project 83 Transect # 2 Date 7 Jun 1976 Sunset Time 2045

Time Begun 2120 Temp. 20° Time Completed 0230 Temp. 18° Cloud Cover 0

Starting Point on map Finish Point on map Length of Transect 30 mi

Observable Distance Estimates up to 25 meters.

266

Mile 1 12[M]; 2 11; 3 9; 4 7; 5 9; 6 9; 7 12; 8 6; 9 8; 10 9;

11 12; 12 9; 13 10; 14 9; 15 11; 16 15; 17 6; 18 10; 19 9; 20 11;

21 11; 22 10; 23 8; 24 7; 25 7; 26 5; 27 4; 28 7; 29 6; 30 7.

Odometer Reading	Species Observed	Habitat	Odometer Reading	Species Observed	Habitat
43.0	start				
44.3	Lepus townsendii	high sage			
61.1	L. townsendii	upland meadow			
62.5	L. townsendii	gas-line-meadow			
65.2	Sylvilagus sp.	sage / serviceberry			
65.5	L. townsendii	gas-line meadow			
65.6	Sylvilagus sp.	on road / high sage			
66.5	Sylvilagus sp.	PJ / in deadfall			
73.0	finish				

for both nights =

Sylvilagus 0.07 / ha

Lepus townsendii 0.06/h

1. $\bar{x}$ est. dist. 8.87 m. x transect length 48270 m. = 428,155 sq. m. of coverage.

2. $\frac{\text{sq. m. coverage}}{\text{sq. m./hectare}} = \frac{428155}{10{,}000} = 42.82$ hectares; $N = \frac{\text{number sited}}{\text{total hectares}} =$ _____/hectare.

Species	No. Sighted	Hectares Covered	Pop. Est./Hectare
Sylvilagus sp.	3	42.82	0.07
Lepus townsendii	4	42.82	0.09

RBOSP PROGRESS REPORT

054/060175

bm 7-7-76

File No: 83 C.5-32

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number A Location Greenwood / Cave Field Analysts Smith / Clark

Sampling Period 4 Project Number 83 QA Check Brown 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	No Captures			
7/25/76	No Captures			
7/26/76	[illegible]			
7/27/76	No Captures			
	7/27/76			
	pitfalls closed			

File No: 93 c 5 3 2

SMALL MAMMAL PITFALL FIELD DATA

Pitfall Number B Location P-J (Sand) Field Analysts Kuehn / Pyott

Sampling Period 5 Project Number 53 QA Check Brown 10-4-76

Date	Species	Sex	Age	Comments*
7/25/76	PEMA	U	J	none disposed
7/26/76	No CAPTURES			—
7/27/76	No captures			—
7/28/76	No captures			—
	Closed 7/28/76			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

RBOSP PROGRESS REPORT

File No: 83 C

SMALL MAMMAL PITFALL FIELD DATA SHEET
(north)

Pitfall Number C Location Pinyon - Juniper Field Analysts Sam / Clark

Sampling Period *6 Project Number 83 QA Check Sam 11-4-76

Date	Species	Sex	Age	Comments*
7/24/76	No Captures			
7/25/76	No Captures			
7/26/76	" "			
7/27/76	No Captures			
	7/27/76 last pitfalls			

* Reproductive condition, diagnostic characters, future use of specimens, etc.

File No: 83 C 5 3.4

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number D Location Sagebrush (north) Field Analysts Sims / Clark

Sampling Period #8 Project Number 23 QA Check Sims 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	No Captures			—
7/25/76	Lagurus curtatus	F	A	dissected
7/26/76	No Captures			—
7/27/76	No Captures			—

File No: 07 C-5

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number E Location Mixed brush (South) Field Analysts McGregor, Lawton

Sampling Period 8 Project Number 8 QA Check Lawton 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	NO captures			—
7/25/76	NO captures			—
7/26/76	NO captures			—
7/27/76	" "			—

File No: [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Trap Number F Location Douglas Fir Field Analysts McGregor, Nyquist

Sampling Period 8 Project Number 83 QA Check Lin 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	NO captures			—
7/25/76	" "			—
7/26/76	" "			—
7/27/76	" "			—
	,			

File No: 83 c532

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number G Location Aspen Field Analysts McGregor, Arvidson

Sampling Period 4 Project Number 83 QA Check Form 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76				—
7/25/76				—
7/26/76	Shrew			
7/27/76	4 shrews			
	1 pocket gopher	(F)		

Reproductive condition, diagnostic characters, future use of specimens, etc.

RBOSP PROGRESS REPORT

File No: 83 c 53...

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 1 Location Bottomland / Meadow Field Analysts Kastel / Ro...

Sampling Period 8 Project Number 83 QA Check Lam 10-4-76

Date	Species	Sex	Age	Comments*
7/25/76	No captures			
7/26/76	No captures			
7/27/76	No captures			
7/28/76	No captures			
	Closed 7/28/76			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

RBOSP PROGRESS REPORT

File No: 83 [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 2 Location Sagebrush (flat) Field Analysts Sue / Clark

Sampling Period #8 Project Number 83 QA Check [illegible] 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	No Captures			
7/25/76	No Captures			
7/26/76	No Captures			
7/27/76	No Captures			
	pitfall down 7/27/76			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

File No: 83 c 53

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location Rabbitbrush Field Analysts K. Rose / Rees

Sampling Period 8 Project Number 53 QA Check Lucy 10-4-76

Date	Species	Sex	Age	Comments*
7/25/76	NO CAPTURES			
7/26/76	MIMD	M	A	— disposed
7/26/76	MIMD	U	A	disposed
7/27/76	No captures			none
7/28/76	No captures			none
	Closed 7/28/76			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

specimens, etc.

IBP/CT&P PROGRESS REPORT

File No: [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 4 Location [illegible] Field Analysts [illegible]

Sampling Period 8 Project Number [illegible] QA Check [illegible] 10-4-76

Date	Species	Sex	Age	Comments*
7/24/7	PEMA	U	J	dipped
7/25/7	no captures			—
7/26/7	no captures			—
7/27/76	No captures			—
	Pitfalls closed 7/27/76			

File No: 83 [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 6 Location P-J / Sage Field Analysts Sam / Clark

Sampling Period #8 Project Number 83 QA Check Sam 10-4-76

Date	Species	Sex	Age	Comments*
7/24/76	No Captures			
7/25/76	No Captures			
7/26/76	No Captures			
7/27/76	No Captures			
	Pitfalls closed 7/27/76			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

RECOP PROGRESS REPORT

File No: [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 8 Location Riparian Field Analysts DCK CAR

Sampling Period 8 Project Number 83 QA Check [illegible] 10-4-76

Date	Species	Sex	Age	Comments*
7/26/76	No captures			
7/27/76	No captures			
7/28/76	No captures			
7/29/76	No captures			

File No: [redacted]

SMALL MAMMAL PITFALL DATA SHEET

Pitfall Number 9 Location Upland Meadow Field Analysts Arentsen, McGregor

Sampling Period 8 Project Number 83 QA Check Lum 10-4-76

Date	Species	Sex	Age	Comments*
9/24/76	NO CAPTURES			—
9/25/76	"			—
9/26/76	Peromyscus maniculatus	♂		discard
9/27/76	NO CAPTURES			—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

RECEIVED PROGRESS REPORT

Ecology Consultants, Inc.

File No: 83.C.5.22

SNAP TRAP LINE RECORD SHEET

Collector: Reyes / Kestrel Date: 25 July 1975 Project: 83

Location: T 15 R 98W S 30 1/4 S SW Vegetation Type: Grassland / [illegible]

Trap Type: Snap No. of Traps: 40 No./Station: 2

Approximate Spacing of Stations: 10 M Bait: peanut butter

QA Check: [illegible] Date: 10-4-76

Traps out 25 July

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
EUMI				X	
6 July 1976 EUMI				X	
EUMI				X	
EUMI				X	
EUMI		X			
EUMI		X			
EUMI		X			
PEMA		X			
28 July PEMA		X			
PEMA				X	
PEMA				X	
PEMA				X	
PEMA		X			
PEMA		X			
PEMA		X			
EUMI		X			diggood eaten by ants

Comments: (empty or missing traps, unusual occurrences, etc.)

Line pulled 28 July 1976
sufficient capture
[signature]

072/060175

File No: 83-C.5.2.2

SNAP TRAP LINE RECORD SHEET

Collector: GAR / DCK Date: 24 July 1976 Project: 83

Location: T 15 R 9W S 33 1/4 1/4 S NE Vegetation Type: Pinyon juniper (Ex

Trap Type: Snap No. of Traps: 40 No./Station: 2

Approximate Spacing of Stations: 10M Bait: peanut butter

Traps set 24 July QA Check: [illegible] Date: 10-4-76

	Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
1	PEMA		✓			
2	PEMA		X			
3	PEMA		X			
4	PEMA				X	
5	PEMA				X	
6	PEMA		X			
7	PEMA				X	
8	PEMA				X	
9	EUMI				X	
10	EUMI				X	
11	EUMI		X			
12	EUMI		X			
13	EUMI				X	
14	EUMI		X			
15	EUMI				X	
16	EUMI				X	
17	EUQU		X			

25

Comments: (empty or missing traps, unusual occurrences, etc.)

Line pulled 26 July — sufficient capture

GAR

072/060175

File No: 83.C.5.22

SNAP TRAP LINE RECORD SHEET

Collector: GARLOCK Date: 24 July 1976 Project: 83

Location: T 15 R 99W S 33 1/4 1/4 SE Vegetation Type: Pinyon-juniper (NORTH)

Trap Type: Snap No. of Traps: 40 No./Station: 2

Approximate Spacing of Stations: 10M Bait: peanut butter

Traps set 24 July QA Check: Brown Date: 10-4-76

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
1 PEMA				X	
2 PEMA		X			
3 PEMA		X			
4 PEMA		X			
July 25 5 PEMA		X			
6 PEMA			X		
7 PEMA				X	
8 PEMA				X	
9 PEMA				X	
10 PEMA		X			
11 PEMA			X		
EUMI		X			
PEMA				X	
July 26 PEMA				X	
PEMA			X		
STLA				X	

July 24 EUMI X dispose d

Comments: (empty or missing traps, unusual occurrences, etc.)

July 28 EUMI X

Line pulled (4th day)
28 July 1976 GAR

QUI Qu

072/060175

RESEP PROGRESS REPORT

File No: 83 c.5.72

SNAP TRAP LINE RECORD SHEET

Collector: DR McCusker, P Anderson Date: 25 July 1976 Project: 83

Location: T 25 R 9W S 8 1/4 1/4 SE Vegetation Type: Sagebrush

Trap Type: Snap No. of Traps: 40 No./Station: 2

Approximate Spacing of Stations: 10-20 M Bait: peanut butter

QA Check: [illegible] Date: 10-4-76

Traps set 25 July 1976

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
7/26/76 [illegible]		—			
[illegible]				—	
PEMA				—	
PEMA				—	
[illegible]		—			
[illegible]				—	
PEMA		—			
7/27/76 Eumi		✓			
7/28/76 SPLA		✓			
" Eumi		✓			

Comments: (empty or missing traps, unusual occurrences, etc.)

7/75

ECI

0172/000173

File No: 03 c.5.22

SNAP TRAP LINE RECORD SHEET

Collector: D R McGregor / P Mundy Date: 24 June Project: 82

Location: T 25 R 12W S 22 1/4 1/4 1/4 S 11 W Vegetation Type: Mixed Brush

Trap Type: Sherman No. of Traps: 10 No./Station: 2

Approximate Spacing of Stations: 10 x 20 M Bait: Peanut butter

QA Check: Lemm Date: 11-4-76

Trans Act 23 July

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
PLMA				✓	
PLMA				✓	
PLMA				✓	
PLMA		✓			
PLMA		✓			
PLMA		✓			
EUMI				✓	
PLMA				✓	
EUMI				✓	
PLMA		✓			
EUMI				✓	
7/27/76 Eumi		✓			
7/28/76 Eumi		✓		✓	

Comments: (empty or missing traps, unusual occurrences, etc.)

PROGRESS REPORT

7/75

ECI

ecology consultants inc.

File No: 83 C.S.T.S

1 of 2

SNAP TRAP LINE RECORD SHEET

Collector: D.R. McGregor / P. Hudson Date: 7-8 July Project: 83

Location: T 7S R 10W S 33 1/4 1/4 S 5E 1/4 Vegetation Type: A. P. N

Trap Type: Snap No. of Traps: 20 No./Station: 2

Approximate Spacing of Stations: 10-20 M Bait: peanut butter

QA Check: [illegible] Date: 10-4-76

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
PEMA		✓			
MILO				✓	
MILO				✓	
MILO				✓	
PEMA				✓	
EUMI		✓			
PEMA		✓			
PEMA				✓	
PEMA		✓			
PEMA		✓			
PEMA		✓			
PEMA		✓			
CLGA				✓	
PEMA		✓			
PEMA				✓	
PEMA		✓			
PEMA		✓			

Comments: (empty or missing traps, unusual occurrences, etc.)

PEMA ✓

PROGRESS REPORT

File No: 83 c 5...

2 of 2

SNAP TRAP LINE RECORD SHEET

Collector: D.P McGregor / P Anderson Date: 21 July Project: 83

Location: T 25 R 10W S 33 1/4 1/4 S 36 Vegetation Type: ASPEN G

Trap Type: Sherman No. of Traps: 40 No./Station: 2

Approximate Spacing of Stations: 10-20 m Bait: peanut butter

SET 7/23/76 QA Check: brm Date: 10-4-76

Species	Number of Animals ♂ Juv.	♂ Ad.	♀ Juv.	♀ Ad.	Specimen Disposition
7/27 Milo	1				
CLGA	1				

Comments: (empty or missing traps, unusual occurrences, etc.)

RBOSP PROGRESS REPORT

ECI

7/75

File No. 130.5.5.2

BAT MIST NET SAMPLING SHEET

Collector(s) R. McGuire / R. Macgregor Date 6/23/76 Project RBOSP-93

Location: T 2 S R 98W S 9 1/4 1/4 SW SE Time Net Set 2115

Description 2 nets at right angles over stock pond (tank) in Ryan gulch nr. R.G. school QA Check MM 6-29

Time Net Checked	Species	Collection #	Sex	Comments (condition, collection, release, etc.)
~~2115~~ 2115	Myotis leibii	1	♂	collected — tangled in net
2200	Myotis evotis	2	♂	collected
2230	No captures			
2300	" "			
2330	pulled net no captures			

2

File No. 130.3.2

BAT MIST NET SAMPLING SHEET

Collector(s) McGuire/Macgregor Date 6/24/76 Project Prosp 83

Location: T 15 R 98 W S 30 1/4 1/4 SNW SE Time Net Set @ 2040

Description Spring in Corral gulch W of 324 Ranch QA Check bmw 6-29

Time Net Checked	Species	collection #	Sex	Comments (condition, collection, release, etc.)
2130	Myotis volans?	1	♀	collected for pos. ID & voucher
2130	Eptesicus fuscus	2	♂	collected
2230	Eptesicus fuscus		♂	released
2245	no captures			
2310	" "			NO BATS SEEN
2320	" "			" " "
2335	" "			" " "
2340	net pulled			" " "

BLM PROGRESS REPORT

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File No. 83.552

BAT MIST NET SAMPLING SHEET

Collector(s) McGuire/Mcgregor Date 6/24/76 Project RBOSP 83

Location: T 15 R 98W S 20 1/4 1/4 SE Time Net Set 2100

Description small stock pond in Yellow ~~Water~~ Creek Ecl 84 Ranch QA Check bmw 6-28

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2200	no captures		
2220	" "		
2255	" "		
2305	" "		bats still flying (a couple)
2350	" "		NO BATS Flying
2355	NET PULLED		NET PULLED

RBOSP PROGRESS REPORT

063/060175

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063/060175

File No. 83C.552

BAT MIST NET SAMPLING SHEET

Collector(s) McGuire/Macgregor Date 6/25/76 Project RBOSP - 83

Location: T 1S R 98W S 30 1/4 1/4 S NW SE Time Net Set 2100

Description Spring in Corral gulch above 84 Ranch QA Check burn 6-27

Time Net Checked	Species	collection #	Sex	Comments (condition, collection, release, etc.)
2250	Lasionycteris noctivagens	1	♂	collected
6/26/76 0100	NET PULLED			

RBOSP PROGRESS REPORT

ecology consultants, Inc

File No. 83-552

BAT MIST NET SAMPLING SHEET

Collector(s) McGuire/Macgregor Date 6/25/76 Project RBOSP-83

Location: T 15 R 98W S 7 1/4 1/4 S SWNW Time Net Set 2130

Description Stock ~~pond~~ tank in Duck Creek QA Check Lum 6-29-7

Time Net Checked	Species	collection #	Sex	Comments (condition, collection, release, etc.)
2140	Myotis leibei		♂	released
2142	Myotis volans	1	♀	collected —
2145	Myotis evotis		♀	released
2150	Myotis leibii	2	♂	badly tangled & wet collected
2205	Myotis evotis		♂	release
2210	Myotis evotis		♀	release
2215	Myotis evotis		?	escaped before sexing
2215	Myotis evotis		♀	released
2220	Eptesicus fuscus		♂	released
2225	Myotis evotis		♂	released
2320	Myotis volans		♂	released
2330	Eptesicus fuscus		♂♂	released
2330	Myotis leibei		♀	released
2355	Myotis leibei		♂	released
2355	Myotis evotis		♀	released
0030	Myotis evotis		♂	released
0032	Myotis evotis		♂	released
6/24/76				
				Not Pulled 0035 6/30/76

17

BLM PROGRESS REPORT

File No. 83C.5.5.2

BAT MIST NET SAMPLING SHEET

Collector(s) McGuire / Macgregor Date 6/26/76 Project R80SP-83

Location: T 25 R 98W S 7 1/4 1/4 S SWSE Time Net Set 2230

Description Ryan gulch stock pond just above Ryan School QA Check luw 6-29

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2345	Myotis evotis	♀	released
2345	Myotis volans	♂	released
2345	Lasiurus cinereus	♂	collected
2400	Myotis evotis	?	disposed - wet & dead in net - very bad condition
6/27/76 0700	Myotis leibei	♀	released
	Myotis evotis	♀	released
	Myotis evotis	♀	released
	Myotis volans	♀	released
	M. volans	♀	released
	M. volans	♀	released
0700	net pulled		

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File No. 83052

BAT MIST NET SAMPLING SHEET

Collector(s) PL Kennedy Date 8/23/76 Project 83

Location: T 15 R 9W S 11 1/4 1/4 S NE NW Time Net Set 2150

Description Stock tank – Duck Creek QA Check bmw 8-31

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2155	Non		
2210	Non		
2220	Non		

RECSP PROGRESS REPORT

063/060175

072/060175

File No. 83 C 552

BAT MIST NET SAMPLING SHEET

Collector(s) D. Kennedy Date 8/24/76 Project 83

Location: T 15 R 98W S 18 1/4 1/4 S SESE Time Net Set 2250

Description Stockton - south of N. Fork Hackberry - Big Draw QA Check [illegible]

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2300	None		
2310	None		
2320	None		

File No. 83-552

BAT MIST NET SAMPLING SHEET

Collector(s) D Kennedy Date 8/24/76 Project 83

Location: T 15 R 98W S 29 1/4 1/4 S NENW Time Net Set 2035

Description Yellow Creek pond QA Check Initial 8-31

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2045	Myotis evotis	♀	
2105	None		
2115	None		
2125	None		
2135	None		
2145	None		
2155	None		
2205	None		

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063/060175

072/060173

File No. 83055.2

BAT MIST NET SAMPLING SHEET

Collector(s) R Kennedy Date 5/25/76 Project 53

Location: T 15 R 9W S 29 1/4 1/4 S NE NW Time Net Set 2355

Description Yellow Creek pond QA Check [illegible] 8-3-

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
0005	None		
0015	None		
0025	None		

[illegible] REPORT

063/060175

File No. 83C552

BAT MIST NET SAMPLING SHEET

Collector(s) H. Kennedy Date 8/25/76 Project 83

Location: T 15 R 98W S 30 1/4 1/4 SENE Time Net Set 2150

Description Coal Gulch impoundment QA Check [illegible]

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2200	None		
2210	None		
2220	1 unidentified bat		chewed its way out of the net before it was identified
2235	None		
2245	None		
2255	None		

063/060175

072/060175

File No. 83-552

BAT MIST NET SAMPLING SHEET

Collector(s) P. Kennedy Date 8-26-26 Project BS

Location: T 25 R 98W S 9 1/4 1/4 SE SW Time Net Set 2100

Description Kanarraville water tank QA Check [illegible]

Time Net Checked	Species	Sex	Comments (condition, collection, release, etc.)
2130	None		
0630	None		
(8/27/26)			

2.3.4 Large Mammals

2.3.4.3 Results

2.3.4.3.1 Aerial Surveys

Large mammal aerial surveys were conducted on June 10 and August 9, 1976. The number of mule deer, elk, and feral horses observed during each survey is presented in Table 2.3-49.

Most of the few mule deer and the elk observed during this quarter were located on the high elevations west of Tract C-a. Feral horse herds ranging in size from 3 to 18 animals were observed on 84 mesa, the southeast corner of Tract C-a, and southwest of Tract C-a on Airplane and Landing Strip Ridge totalling 98 horses recorded during the June survey. The 39 horses observed during the August survey were located on 84 mesa, Dead Horse Ridge, north of Corral Gulch, Box Elder Gulch, and between the Right and Left Forks of Stakes Springs Draw. Herds ranged in size from 3 to 12 animals.

2.3.4.3.2 Pellet Group Counts

Pellet group counts were conducted June 2-5, 1976. The results of the pellet-group plot inspection are presented in Table 2.3-50. All transects had pellet group accumulations during the winter/spring 1975-76 period. Transects 5 and 6 on the eastern part of Tract C-a showed the highest pellet group accumulations (pellet group indices of 0.9) in the study area. Pellet group accumulation on transects in the other locations was variable; transects west and southwest of Tract C-a showed relatively low pellet group indices, transects north of the tract generally had low pellet group indices but the transect (2) furthest northwest of Tract C-a showed a somewhat higher pellet group index (0.7) than other transects in the vicinity.

Transects 1 and 7, located on the western portion of Tract C-a, showed pellet group indices (0.6 and 0.5 respectively) intermediate between those of the eastern Tract C-a area and the low-index transects off Tract C-a to the northwest and south.

Table 2.3-49. Number of mule deer, elk, and feral horses observed during two summer, 1975 aerial surveys conducted for RBOSP

Date	Mule Deer	Elk	Feral Horses		
			Adult	Juvenile	Unidentified
June 10, 1976	2	1	76	17	5
August 9, 1976	3	0	37	2	0

072/0601Z3

Table 2.3-50. Mule deer pellet groups accumulated during winter/spring 1975/1976 on 13 transects on and near Tract C-a for RBOSP

Transect Number	Pellet Groups Recorded	Pellet Groups Per Acre	Period of Accumulation (days)	Pellet Group Index 1/
1	9	156.8	256	0.6
2	10	174.2	257	0.7
3	8	139.4	257	0.5
4	3	52.3	257	0.2
5	13	226.5	256	0.9
6	13	226.5	256	0.9
7	8	139.4	256	0.5
8	4	69.7	257	0.3
9	8	139.4	257	0.5
10	6	104.5	257	0.4
11	5	87.1	257	0.3
12	4	69.7	257	0.3
13	6	104.5	256	0.4

1/ Pellet group index = $\frac{\text{Pellet groups/acre}}{\text{Accumulation Period}}$

072/0601/5

2.3.4.5 Large Mammal Raw Data

2.3.4.5 Large Mammal Raw Data

File No. R3 C 6.6 3 1 1

181

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM

Proj/Study 83/04 Date Flown 10 June 76 Species ELK Survey Area RBOSP

Observers: R F Harding L P Kennedy Pilot/Aircraft Lt Ramer/Cessna 206

Start 0803 Finish 0834 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200

Counting Conditions: Ground Cover poor Light good Air fair

Weather: Temp. 50/55 Wind 0/3 Cloud Cover 0/0 Analyst RFH LHK QA Check Lum 7-14-76

Observations M	F	JUV	U	Location	Notes and Comments
			1	transect 18 N part of Airplane Ridge	
			1		

Total Animals Counted: 1 ✓

Animal Distribution:

130/060175

RBOSP PROGRESS REPORT

File No. 83.6.1.5.1.2

1 of 1

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM

Proj/Study 83/04 Date Flown 10 June 76 Species Mule deer Survey Area RBOSP

Observers: R. Eckling L. & P. L. Kennedy Pilot/Aircraft L. E. Paur/Cessna

Start 0603 Finish 0834 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200

Counting Conditions: Ground Cover poor Light good Air fair.

Weather: Temp. 58/55 Wind 0/5 Cloud Cover 0/0 Analyst CLK, PLK QA Check [illegible] 7-14-76

Observations M	F	JUV	U	Location transect	Notes and Comments
			1	19 Big Duck Creek	mixed brush
	1			19 Airplane Ridge	

File No. 83.C.663.1.2

1081

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM

Proj/Study 83/61 Date Flown 10 June 76 Species Horses (feral) Survey Area RBOSP

Observers: R F Cutting L R P L Kennedy Pilot/Aircraft L F Pour / Cessna 206

Start 0603 Finish 0834 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200'

Counting Conditions: Ground Cover poor Light good Air fair

Weather: Temp. 58/55F Wind 0/3 Cloud Cover 0/0 Analyst PLK, CHC QA Check

Observations ~~Adult~~	JUV	U	Location transect	Notes and Comments
11	4		7 84 mesa by pipeline and road	5 bay 2 gray 1 sorrel 3 dark adults ~~dark~~, juveniles were dark
1			13 E of Corral Gulch ridge	
3	2		15 Landing Strip Ridge	3 lg white 2 juv were dark
12	6		North part of Landing Strip	3 lg white 6 lg dark 6 small dark 3 bay
		5	16 Airplane Ridge	2 white 1 dark 1 gray 1 sorrel
6			13 north part of Landing Strip Ridge	2 black, 2 sorrel, 1 white, 1 dark p-j/sagebrush habitat
9	1		south part of Landing Strip Ridge	p-j/sagebrush habitat
1			16 ridge north of Duck Creek	roan;
15	2		17 north part of Airplane ridge	1 adult horse was gray with a blackmane; 5 dark, 1 bay; 1 calf dark; mixed brush habitat
3			ridge at south end of transect	all bays; bald habitat
15	2		18 knoll west of K-Gulch	
76	17	5		

Total Animals Counted: 98 ✓

Animal Distribution:

130/060175

File No. 83.C.6.6.3.1.1

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 1 of 1

Proj/Study 83/04 Date Flown 9 Aug 76 Species ELK Survey Area RBOSP

Observers: R.C. Kling L.P. Kennedy Pilot/Aircraft Lew Curry/Cessna 206

Start 0708 Finish 0935 Ave. Indicated Air Speed 75-85 mph Est. Altitude 10-12,000

Counting Conditions: Ground Cover poor Light excellent Air good

Weather: Temp. 50/60°F Wind SSW 4/4 Cloud Cover 0/0 Analyst PLK, LLK QA Check Brand 8-20-

Observations M	F	JUV	U	Location	Notes and Comments
					No elk observed this date

File No. 83C613.2

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM

1 of 1

Proj/Study 83/04 Date Flown 9 Aug 76 Species Mule Deer Survey Area RBOSP

Observers: R C Elkins L Greg Pl. Kennedy Pilot/Aircraft Lee Lamm / Cessna 2

Start 0708 Finish 0935 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-2

Counting Conditions: Ground Cover poor Light excellent Air good

Weather: Temp. 56 [illegible] Wind sw 4/1 Cloud Cover 0/0 Analyst RC, LLC QA Check [illegible]

Observations M	F	JUV	U	Location	Notes and Comments
	1			Transect 13 - south-facing slope along intermittent gully at south end of transect	
2				transect 19 Ridgetop along Cathedral Bluffs Road	

File No. 83.6.6.3.12

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 1 of 1

Proj/Study 83/61 Date Flown 9 Aug 76 Species Feral Horses Survey Area RSOSP

Observers: R F CL Kling L Kear P Kennedy Pilot/Aircraft Lon Baur / Cessna 206

Start 0748 Finish 0935 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200

Counting Conditions: Ground Cover poor Light excellent Air good

Weather: Temp. 56/64 F Wind SSW 4/4 Cloud Cover 0/0 Analyst RK, CLK QA Check Lund 8-20

Observations				Location	Notes and Comments
~~Adult~~	F	JUV	U	Transect	
	3	1		6 - South of North Van Horn Bully	adults - white; colt - gray and white p-j/sagebrush
	12			15 Dead Horse Ridge	all adults - p-j/mixed brush
	5			Spruce Gulch	mixed brush
	3			16 - 2 ridges South of Landing Strip Ridge	mixed brush - all horses - wh
	4			17 - south end of transect	2 white; 2 black - bald
	6	1		17 N of Airplane Ridge	1 white 2 dark 3 sorrel/bay Lamb dun
	4			18 Dead Pig Ridge	2 white 1 dark 1 sorrel
	37	2			

Total Animals Counted: 39 ✓

Animal Distribution: small herds scattered to southwest and north east of transect a.

PROGRESS REPORT

SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/[illegible] Transect: 1 Plot Size: 100 Ft²

Location: E½ S32 T1S R99W

Live Pellet Groups Initially Removed: 10/23/74 Survey No: 3, Spring 76

Plot No.	Inspector: CLKling Date: 06/03/76 Pellet Groups Observed	Landscape and Vegetation Information
1	3	uncharged from previous survey unless noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	2	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	1	
22	1	
23	0	
24	1	
25	1	
Total	9	

RBOSP PROGRESS REPORT

lwm 6-8-76

ECI

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SINGLE TRANSECT PELLET GROUP C[illegible]LD DATA SHEET 83.C.6.4.2

Project: 83/62 Transect: 2 Plot Size: 100 ft²

Location: W 1/2 Sec 24 T1.S R100 W

Date Pellet Groups Initially Removed: 5-19-75 Survey No: 2 Spring 76

Plot No.	Inspector: cuddy Date: 2 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted
2	0	
3	2	
4	0	
5	0	
6	2	
7	0	
8	0	
9	0	
10	1	
11	2	
12	0	
13	0	
14	1	
15	0	
16	1	
17	0	
18	0	
19	0	
20	0	
21	0	
22	1	
23	0	
24	0	
25	0	Coyotecat nearby
Total	10	

[illegible]

lmw 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4/2

Project: 83/68 Transect: 3 Plot Size: 100 ft²

Location: W½ Sec 19 T1S R99W

Date Pellet Groups Initially Removed: 5/18/75 Survey No: 2 Spring 76

Plot No.	Inspector: CLKong Date: 3 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted below
2	0	
3	0	
4	0	
5	1	
6	0	
7	0	
8	0	
9	1	
10	0	
11	1	
12	1	
13	0	
14	0	
15	0	
16	0	
17	0	
18	1	Kendall
19	0	
20	0	
21	0	
22	0	
23	1	
24	1	
25	1	
Total	8	

RBOSP PROGRESS REPORT

bmw 6-3-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/69 Transect: 4 Plot Size: 100 ft²

Location: W1/2 Sec 20 T1S R99W

Date Pellet Groups Initially Removed: 05/18/75 Survey No: 2 - Spring

Plot No.	Inspector: CLKling Date: 3 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	1	unchanged from previous survey unless noted
2	1	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	1	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	3	

bmw 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET P3.C.6.4.2

Project: 83/63 Transect: 5 Plot Size: 100 ft²

Location: Mideast Northand South S4 T2S · R99W

Date Pellet Groups Initially Removed: 10/21/74 Survey No: 3 Spring 76

Plot No.	Inspector: CLKing Date: 4 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted below
2	1	
3	1	
4	4	
5	2	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	2	
14	0	
15	0	
16	0	
17	1	
18	1	
19	1	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	13.	

[illegible] PROGRESS REPORT

Lwn 6-8-76

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GLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83 C.6.4.2

Project: 83/63 Transect: 6 Plot Size: 100 Ft²

Location: E 1/2 S3 T25 R99W

Date Pellet Groups Initially Removed: 10/24/74 Survey No: 3 Spring

Plot No.	Inspector: CLKling Date: 4 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	uncharged from previous survey unless noted
2	0	
3	0	
4	1	
5	0	
6	4	
7	1	
8	2	
9	1	
10	0	
11	0	
12	0	
13	0	
14	2	
15	0	
16	1	
17	1	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	13	

RBOSP PROGRESS REPORT

Lum 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/63 Transect: 7 Plot Size: 100 ft²

Location: E½ S8 T25 R99W

Date Pellet Groups Initially Removed: 10/23/74 Survey No: 3 Spring 76

Plot No.	Inspector: CCKling Date: 4 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	1	
10	0	
11	0	
12	1	
13	3	
14	0	
15	0	
16	0	
17	0	
18	0	
19	1	
20	1	
21	0	
22	0	
23	1	
24	0	
25	0	
Total	8	

RESS REPORT

Lmm 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/63 Transect: 8 Plot Size: 200 ft²

Location: W½ S25 T1S R100W

Date Pellet Groups Initially Removed: 05/17/75 Survey No: 2 Spring 76

Plot No.	Inspector: CWChung Date: 2 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted.
2	0	
3	1	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	1	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	1	
21	0	
22	1	(elk)
23	0	
24	0	
25	0	
Total	4	

USDA PROGRESS REPORT

bmw 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/63 Transect: 9 Plot Size: 100 ft²

Location: E ½ S28 T1S R97W

Date Pellet Groups Initially Removed: 05/16/75 Survey No: 2 Spring

Plot No.	Inspector: CLKing Date: 3 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted.
2	1	many other flags in the area.
3	1	
4	1	
5	0	
6	0	
7	0	
8	0	
9	0	
10	1	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	2	
21	0	
22	0	
23	0	
24	1	
25	1	
Total	8	

PROGRESS REPORT

bsm 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.4.2

Project: 83/63 Transect: 10 Plot Size: 100 ft²

Location: W½ S36 T1S R100W

Date Pellet Groups Initially Removed: 05/17/75 Survey No: 2 Spring 76

Plot No.	Inspector: CL Kling Date: 2 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey unless noted below
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	1	
10	1	
11	0	
12	0	
13	1	
14	0	
15	0	
16	0	
17	1	
18	0	
19	0	
20	0	
21	0	
22	0	
23	1	
24	1	
25	0	
Total	6	

ROUTINE PROGRESS REPORT

bum 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.42

Project: 83/13 Transect: 11 Plot Size: 100 ft²

Location: E½ 5/ T25 R10oW

Date Pellet Groups Initially Removed: 05/17/75 Survey No: 2 Spring '76

Plot No.	Inspector: Cuchney Date: 2 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	undisturbed from previous unless noted
2	0	
3	1	
4	1	
5	1	
6	1	
7	1	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	5	

DRAFT REPORT

bm 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 13.C.6.4.2

Project: 83/63 Transect: 12 Plot Size: 100 ft²

Location: E½ S13 T25 R100W

Date Pellet Groups Initially Removed: 05/16/75 Survey No: 2 Spring

Plot No.	Inspector: CCKing Date: 4 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	1	unchanged from previous unless noted below
2	0	
3	1	
4	0	
5	0	
6	0	
7	0	
8	1	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	1	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	4	

[illegible] PEC

bcm 6-8-76

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SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.C.6.L.2

Project: 83163 Transect: 13 Plot Size: 100 ft²

Location: 1 E½ S16 T2S R7W.

Date Pellet Groups Initially Removed: 05/16/75 Survey No: 2 Spring 76

Plot No.	Inspector: Cocking Date: 4 June 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey except where noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	2	
8	0	
9	1	
10	1	
11	1	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	1	
24	0	
25	0	
Total	6	

PROGRESS REPORT

Lum 6-8-76

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2.3.5 Mammalian Predators

2.3.5.3 Results

Scent-station predator sampling was conducted during June 26-30, 1976. These results are summarized in Table 2.3-51 . Havahart traps were set during this period and during the July small mammal sampling period in six vegetation types in the vicinity. Tract C-a siren-elicited howling response coyote censuses were conducted on June 25 and 27, 1976.

As shown in Table 2.3-51 scent station line A totalled 205 operable station nights ranging from 36 on day 1 to 44 on day 4. Line A stations were visited by a total of six coyotes and three weasels for indices of 29.27 and 14.63, respectively, for the two species.

Line B had 194 operable stations nights ranging from 33 on day 1 to 43 on day 4. Five coyotes and two weasels were recorded for the week on this line yielding indices of 25.77 and 10.31 for coyotes and weasels, respectively.

Ten coyote siren stations were sampled on two nights during June 26-30, 1976 yielding response by 19 coyote groups at 11 stations summed over the two nights. These results yield station and group response indices of **55** and 95, respectively.

No predators were captured in Havahart live traps during the reporting quarter. Three adult weasels (Mustela sp.) were captured in Sherman live traps during July 1976 small mammal trapping; one weasal was captured on the rabbitbrush and each of the two mixed brush grids.

Table 2.3-51. Predator scent station results for two lines operated during July 26-30, 1976 for RBOSP.

	Sample Night					Total	Station Index 1/
	1	2	3	4	5		
LINE A							
Operable Stations	36	43	40	44	42	205	-
Stations Visited							
Coyote	2	1	1	-	2	6	29.27
Weasel	-	1	1	-	1	3	14.63
LINE B							
Operable Stations	33	38	38	43	42	194	-
Stations Visited							
Coyote	1	1	3	-	-	5	25.77
Weasel	2	-	-	-	-	2	10.31

1/ $\frac{\text{Total No. of Visits by Species}}{\text{Total No. Operable Station Nights}} \times 1000 = \text{Index}$

2.3.5.5 Mammalian Predators Raw Data

2.3.5.5 Mammalian Predators Raw Data

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.0.7.12

ecology consultants, I

Location Rio Blanco Proj. No. 83 Date 26 June 76 Day # 1

Investigator Sanz Survey Route A (on map)

Weather clear, warm

from 7-7-76

X	windblown	X	capsule taken by rodents
2	rodents	27	rodents
3	—	28	rodents
4	—	29	rodents
X	capsule taken by rodents	30	rodents
6	—	X	capsule taken by rodents
(7)	coyote	X	destroyed by cattle
8	—	33	—
9	rodents	X	destroyed by cattle
10	—	35	—
X	capsule taken by rodents	36	rodents
12	rodents	X	capsule taken by rodents
13	rodents	38	rodents; birds
14	—	39	rodents
15	rodents	40	cottontail
16	rodents	(41)	coyote pup
17	rodents	X	capsule taken by rodents
X	capsule taken by rodents	43	—
19	rodents	44	—
20	—	X	windblown
21	rodents	46	—
22	—	47	—
X	capsule taken by rodents	X	destroyed by cattle
X	capsule taken by rodents	49	duck
25	rodents	50	rodents

PROOF PROGRESS REPORT

059/060175

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.0.7.12

ecology consultants, I

Location Rio Blanco Proj. No. 83 Date 27 June, 76 Day # 2

Investigator Sanz Survey Route A (on map)

Weather clear, warm

bmw 7-7-76

X 1	capsule missing	26	rodents
2	—	27	—
3	—	28	rodents
4	rodents	X 29	taken by rodents
X 5	capsule missing	30	—
6	elk	31	—
7	rodents	X 32	destroyed by cattle
8	elk	33	rodents, cattle
9	—	X 34	capsule taken by rodents
10	rodents	35	rodents
11	birds	36	rodents
12	—	(37)	coyote
13	birds	38	rodents
14	—	39	rodents
15	horses	40	rodents
16	rodents	41	—
17	—	42	rodents
18	horses	43	—
19	rodents	44	—
20	—	45	—
X 21	taken by cottontail	46	—
22	rodents	47	—
23	rodents	X 48	destroyed by cattle
24	—	49	—
(25)	weasel	50	—

RBOSP PROGRESS REPORT

059/060175

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.C.712

ecology consultants, I

Location Rio BLANCO Proj. No. 83 Date 28 June, 76 Day # 3

Investigator Suzy Survey Route A (on map)

Weather clear hot

brm 7-7-76

1	—	26	—
2	—	27	—
3	rodents	(28)	coyote
4	rodents	~~29~~	capsule taken by rodents
5	rodents	30	rodents
6	rodents	~~31~~	destroyed by cattle
7	—	~~32~~	destroyed by cattle
8	—	~~33~~	destroyed by cattle
9	—	~~34~~	capsule taken by rodents
10	—	35	—
11	rodents	~~36~~	capsule taken by rodents
12	—	~~37~~	capsule taken by rodents
13	rodents	~~38~~	capsule taken by rodents
14	rodents	39	—
15	—	40	cottontail
16	—	41	—
17	—	(42)	weasel
18	rodents	43	rodents
19	—	44	rodents
20	birds	45	birds
21	birds	46	—
22	rodents	47	rdents
23	—	48	cattle
24	—	~~49~~	destroyed by cattle
~~25~~	capsule taken by rodents	50	—

059/060175

PREDATOR SCENT-STATION VISITATION [illegible] DATA SHEET 83 C.7.1.2

ecology consultants,

Location Rio BLANCO Proj. No. 83 Date 29 June 76 Day # 4

Investigator Sam Survey Route A (on map)

Weather clear hot

bmw 7-7-76

1	—	26	—
2	—	27	rodents
3	—	28	rodents
4	—	29	—
5	—	30	—
6	—	~~31~~	destroyed by cattle
7	rodents	~~32~~	destroyed by cattle
8	rodents	33	—
9	—	~~34~~	destroyed by cattle
10	—	35	—
11	—	36	rodents
12	rodents	37	rodents
13	rodents	38	—
14	—	39	—
15	—	40	—
16	—	~~41~~	capsule stolen by birds
17	horse colt	42	cottontail
18	—	43	—
19	rodents	44	—
20	rodents	45	—
21	—	46	birds
22	rodents	47	rodents
23	rodents	48	—
~~24~~	capsule removed by rodents	~~49~~	destroyed by cattle
25	rodents	50	rodents

REOSP PROGRESS REPORT

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83 C:7.1.2

ecology consultants,

Location Rio Blanco Proj. No. 82 Date 30 June 76 Day # 5

Investigator Sarg Survey Route A (on map)

Weather

June 7-7-76

1	——	26	rodents
2	rodents	27	rodents
3	——	28	rodents
4	rodents	29	rodents
5	——	30	——
6	——	~~31~~	inoperative (cattle)
7	rodents	~~32~~	inoperative (cattle)
8	rodents	~~33~~	inoperative (cattle)
9	rodents	~~34~~	inoperative (cattle)
10	——	~~35~~	inoperative (cattle)
11	rodents	36	——
12	rodents	(37)	weasel
13	——	38	rodents
14	Sage grouse	39	——
~~15~~	destroyed by horses	40	——
(16)	coyote	41	——
17	rodents	42	rodents
18	rodents	43	rodents
19	——	44	rodents
20	rodents	45	rodents
21	——	46	——
22	——	~~47~~	destroyed by cattle
23	rodents	48	——
(24)	coyote	~~49~~	destroyed by cattle
25	rodents	50	rodents

RBOSP PROGRESS REPORT

PREDATOR SCENT-STATION VISITA FIELD DATA SHEET 83.C.1.1.2

ecology consultants, I

Location Rio Blanco C-a Proj. No. 83 Date 6/26/76 Day # 1

Investigator T. Turner Survey Route B (on map)

Weather clear, hot

— NO SIGN OF mammalian predators

burn 7-6-76

X	inoperable - cows	X 26	inoperable - cows
2	—	X 27	inoperable - cows
X 3	inoperable capsule missing	X 28	inoperable - cows
(4)	weasel	29	—
(5)	coyote	30	—
X 6	inoperable capsule missing	31	—
7	—	X 32	inoperable - cow
X 8	inoperable - capsule missing	33	—
9	—	34	—
10	—	35	—
11	—	36	—
12	—	37	—
13	—	38	—
X 14	inoperable - capsule missing	39	—
(15)	weasel	X 40	inoperable - cows
16	—	X 41	inoperable - cows
17	—	X 42	inoperable - cows
18	—	43	—
19	—	X 44	inoperable - cows
20	—	45	—
21	—	X 46	inoperable - cows
22	—	47	—
23	—	X 48	inoperable - cows
24	—	X 49	inoperable - cows
25	—	X 50	inoperable - cows

RBOSP PROGRESS REPORT

059/060175

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET

83.C.7.1.2

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Location C-a Proj. No. 83 Date 6/27/71 Day # 2

Investigator Turner Survey Route B (on map)

Weather clear, hot

Sun 7-7-

1	X inoperable - capsule missing	26	—
2	—	27	—
3	—	28	—
4	—	29	—
5	—	30	—
6	—	31	—
7	—	32	X inoperable - coons
8	—	33	—
9	—	34	X inoperable - capsule missing
10	—	35	X inoperable - capsule missing
11	—	36	X inoperable - coons
12	—	37	—
13	X inoperable - capsule missing	38	—
14	—	39	X inoperable - capsule missing
15	—	40	X inoperable - coons
16	X inoperable - capsule missing	41	—
17	—	42	—
18	—	43	—
19	—	44	X inoperable - coons
20	—	45	—
21	—	46	—
22	—	47	—
23	—	48	X inoperable - coons
24	X inoperable - coons	49	—
25	(25) coyote	50	—

RBOSP PROGRESS R...

059/060175

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.0.71.2

ecology consultants,

Location C-a Proj. No. 83 Date 6/28/76 Day # 3

Investigator Turner Survey Route B (on map)

Weather clear, very hot

burn 7-7-76

	1		26 X inoperable - cons
	2		27 X inoperable - cons
	3		28 X inoperable cons
	4		29 X inoperable - cons
	5		30
H	6		31
	7		32 X inoperable - cons
	8		33 (O) Coyote
	9		34
	10		35 (O) Coyote
	11		36
	12		H 37
	13		38
	14		39 (O) coyote
	15		40
H	16 X	inoperable - capsule miss.	41
	17		42
	18		43
	19		44 X inoperable - cons
	20		45
	21 X	inoperable - capsule missing	46 X inoperable - cons
	22		47
	23 X	inoperable - capsule missing	48 X inoperable - cons
	24		49
	25 X	inoperable - capsule missing	50

BBOSP PROGRESS REPORT

059/060175

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.C.7.12

ecology consultants, I

Location [redacted] Proj. No. 83 Date 6/29/76 Day # 4

Investigator Turner Survey Route B (on map)

Weather hot clear

bcm 7-7-76

1		26	
2		27	
3		28	
4		29	
5		30	
# 6		31	
7		32	
8		33	
9		34	
10		~~35~~	inoperable - capsule missing
11		36	
12		# 37	
13		38	
14		39	
15		40	
# 16		~~41~~	inoperable - capsule missing
17		~~42~~	inoperable - coon
18		~~43~~	inoperable - coon
19		~~44~~	inoperable - coon
20		45	
21		46	
22		47	
~~23~~	inoperable - coon	48	
24		49	
~~25~~	inoperable - coon	50	

059/060175

[redacted] PROGRESS REPORT

PREDATOR SCENT-STATION VISITATION FIELD DATA SHEET 83.C.7.1.2

ecology consultants, I

Location C-G Proj. No. 83- Date 6/30/76 Day # 5

Investigator Turner Survey Route B (on map)

Weather hot, clear

from 7-7-76

1	—	~~36~~	unidentified - coon
2X	unidentified - coon	27	unidentified - coon
3	—	28	—
4	—	29	—
5	—	~~30~~	unidentified - coon
6	—	31	—
7	—	32	—
8	—	33	—
9	—	34	—
10	—	35	—
11	—	36	—
12	—	37	—
13	—	38	—
14	—	39	—
15	—	40	—
16	—	41	—
17	—	42	—
18	—	43	—
19	—	44	unidentified - coon
20	—	45	—
21	—	~~46~~	unidentified - coon
22	—	47	—
23	—	48	—
~~24~~	unidentified - coon	49	—
~~25~~	unidentified - coon	50	—

RBOSS PROCESSING REPORT

059/060175

✓ Sany 83.C.7.2.2

ecology consultants, Inc.

SIREN-ELICITED HOWLING RESPONSE

Location Rio BLANCO Project No. 83 Date 25 June, 1976 Investigators Sany / Turner

Survey Route on map. Weather Cloudy, slight wind

brm 7-7-76

Station Number	Time	Response to First Sounding Groups	Individual	Response to Second Sounding Groups	Individual	Total Response Groups	Individual	Notes on conditions affecting data; wind; proximity to humans, etc.
1	2136	2	?	—	—	2	?	conds good.
2	2200	1	3	—	—	1	3	
3	2230	1	?	—	—	1	?	
4	2300	—	—	—	—	—	—	slight breeze
5	2335	2	5	—	—	2	5	
6	0001							wind
7	0037	—	—	—	—	—	—	
8	0105	—	—	—	—	—	—	
9	0130	—	—	—	—	—	—	
	0155							
		—	—		?		?	

RBOSP

83C.7.2.2

ecology consultants, inc.

SIREN-ELICITED HOWLING RESPONSE

Location Rio Blanco Project No. 83 Date 27 June, 1976 Investigators Sauz / Turner

Survey Route on map Weather clear, cool

Rec'd 7-7-76

Station Number	Time	Response to First Sounding		Response to Second Sounding		Total Response		Notes on conditions affecting data; wind; proximity to humans, etc.
		Groups	Individual	Groups	Individual	Groups	Individual	
1	2129	2	8	2	6	4	14	
2	2147	2	5+	—	—	2	5+	
3	2219	—	—	2	5	2	5	
4	2240	—	—	—	—	—	—	
5	2313	—	—	—	—	—	—	
6	2358	1	1	—	—	1	1	
7	0022	—	—	—	—	—	—	
8	0100	1	3	—	—	1	3	
9	0143	—	—	—	—	—	—	
10	0221	2	4	—	—	2	4	

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1976

Habitat Aspen Field Analyst Arrndston

Burn 8.3.76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	L	squirrel/cisco	No Captures			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

83.C.73.R.1

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1974

Habitat Greasewood / Sagebrush Field Analyst Saup

Area 8-5

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	M	Mouse & Cheese	No Captures			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

229/070676

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1976

Habitat Sagebrush Field Analyst Kestrel

Jun 8-3 76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	L	mouse/raisin	No Capture			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83 C 7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1976

Habitat South Slope P.J. Field Analyst Kestrel

tm 18-376

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	L	chipmunk & cricket	No Captures			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83 C 7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1976

Habitat Mixed Brush Field Analyst Sanz Item 8-3-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	S	Mouse & viscera	No Captures			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

Note: Long-tailed weasel (Mustela frenata) was captured in sherman live-traps in this habitat type.

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period July, 1976

Habitat North Slope P.J. Field Analyst Sang

Sent 8-3-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/25	M	mouse & viscera	No Captures			
7/26	"	"	"			
7/27	"	"	"			
7/28	"	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-9 Sample Period Feb 76

Habitat P.J. / Sage Field Analyst Sanz

June 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/25/76	S	spiked meat	No Captures			
5/26/76	S	"	"			
5/27/76	S	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

229/070676

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb '76

Habitat Bottomland meadow Field Analyst Baker

Lum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/25/76	M	spiked fruit	No Capture	—		
2/26/76	M	"	"	—		
2/27/76	M	"	"	—		

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Feb '76

Habitat Pinyon / Juniper (south) Field Analyst Baker

bcm 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/05/76	M	spoiled meat	No capture			
2/26/76	M	"	"			
2/27/76	M	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Feb. '76

Habitat Pinyon / juniper (north) Field Analyst Baker

from 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/25/76	L	spoiled meat	No Captures			
2/26/76	L	" "	"			
2/27/76	L	" "	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Feb '76

Habitat Mixed Brush Field Analyst Smm

Rev 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/25/76	M	Fermented egg	No Captures			
2/26/76	M	"	"			
2/27/76	M	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Feb., '76

Habitat Greasewood / Sagebrush Field Analyst Sam

from 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/25/76	L	spoiled meat	No Captures			
2/26/76	L	spoiled meat	No Captures			
2/27/76	L	spoiled meat	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a – vicinity Sample Period June '76 prod.

Habitat Sagebrush – airplane ridge Field Analyst San Z

Lum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/28/76	L	sardines	No Captures			
6/29	L	"	" "			
6/30	L	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a – vicinity Sample Period June '76 prod

Habitat Mixed brush – airplane ridge Field Analyst San 2

Area 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/28/76	L	spoiled meat	No Captures	—	—	—
6/29	L	" "	" "			
6/30	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a - vicinity Sample Period June '76 prel

Habitat greasewood - sage — near rr. tract. Field Analyst San 2

Lun 7-1-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/28/76	L	formulated egg	No Captures	—	—	
6/29	L	" "	" "			
6/30	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

BOSP PROGRAM

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a-vicinity Sample Period June '76 - J

Habitat Sagebrush - landing strip ridge Field Analyst Turner

Lives 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/28/76	M	ground liver	No captures			
6/29	M	" "	" "			
6/30	M	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period June 1976 pre

bitat South PJ — ladingship ridge Field Analyst Turner

Lun 7-7-76

Date	Trap* Size	Bait	Species	Age	Sex	Comments
6/28/76	S M	scented oil attractant	No Captures			
6/29/76	S M	"	"			
6/30/76	S M	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a - vicinity Sample Period June '76 grab

Habitat North P.J. - landstrip Field Analyst Turner

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/28/76	S	sardines	No captures			
6/29	S	"	Eutamias quadrivittatus	Ad.	♂	
6/30	S	"	No captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract Ca Vicinity Sample Period December '75

Habitat Aspen Field Analyst Harding

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	M	spoiled meat	No Capture	—	—	
12/14/75	M	spoiled meat	No Capture	—	—	
12/15/75	M	spoiled meat	No Capture	—	—	

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Vicinity Sample Period December '75

Habitat Douglas-fir Field Analyst Baker

Sum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	M	vole & viscera	No Capture			
12/14/75	M	vole & viscera	No Capture			
12/15/75	M	vole & viscera	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

229/070676

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File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Vicinity Sample Period December '75

Habitat Mixed Brush Field Analyst Reyes

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	M	Spoiled meat	No Capture	—	—	
12/14/75	M	spoiled meat	No Capture	—	—	
12/15/75	M	spoiled meat	No Capture	—	—	

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period December '75

Habitat Sagebrush Field Analyst Reyes 76

Lum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	M	mouse & viscera	No Capture	—	—	
12/14/75	M	mouse & viscera	No Capture	—	—	
12/15/75	M	mouse & viscera	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period December '75

bitat Pinyon / Juniper (south) Field Analyst Harding

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	L	ground liver	No Captures	—	—	
12/14/75	L	ground liver	No Captures	—	—	
12/15/75	L	ground liver	No Captures	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Vicinity Sample Period December '75

Habitat Pinyon / Juniper (north) Field Analyst Baker

Rcvd 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	S	mouse & viscera	No Capture	—	—	
12/14/35	S	mouse & viscera	No Capture	—	—	
12/15/75	S	mouse & viscera	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period December '75

Habitat Greasewood / Sage Field Analyst Baker

from 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/13/75	L	spoiled meat	No Capture	—	—	
12/14/75	L	spoiled meat	No Capture	—	—	
12/15/75	L	spoiled meat	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

Property of Ecology Consultants, Inc.

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project Roosp - 83 Location Tract C-a Sample Period May '76

Habitat Aspen — on bluffs Field Analyst Reyes
Incm 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	L	ground liver	No captures			
5/17	L	" "	" "			
5/18	L	" "	" "			
5/19	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a vicinity Sample Period May '76

Habitat Douglas fir — on bluffs Field Analyst Reyes

June 7-1-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	S	sardines	No captures			
5/17	S	"	"			
5/18	S	"	"			
5/19	S	"	"			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

REOCP PROGRESS REPORT

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP- 83 Location Tract C-a - vicinity Sample Period May '76

Habitat Mixed brush - airplane ridge Field Analyst ~~Fit~~ Reyes

Trav 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	M	viscera	No captures			
5/17	M	"	" "			
5/18	M	"	" "			
5/19	M	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RECLP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP Location Tract C-a Sample Period May '76

Habitat Rabbitbrush Field Analyst Turner

Trav 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	M	Viscera	No captures			
5/17	M	"	" "			
5/18	M	"	" "			
5/19	M	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period May '76

Habitat South P-J Field Analyst Turner

Lyons 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	S	dead mouse	No. captures			
5/17	S	" "	" "			
5/18	S	" "	" "			
5/19	S	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RECEIVED

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RB05P-83 Location Tract C-a Sample Period May 1976

Habitat North P-J near grid Field Analyst Sanz

Lines 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	M	ground liver	No Captures			
5/17	M	" "	" "			
5/18	M	" "	" "			
5/19	M	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBosP - 83 Location Tract C-a vicinity Sample Period May 1976

Habitat Sagebrush - near grid Field Analyst Sanz

Loan 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	L	spoiled meat	No captures	—	—	—
5/17	L	" "	" "			
5/18	L	" "	" "			
5/19	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP BIOL. COLLECTION

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a Sample Period May 1976

Habitat Creosotebush-sage near grid Field Analyst Sanz
Lim 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/16/76	L	sardines	No Captures			
5/17	L	"	" "			
5/18	L	"	" "			
5/19	L	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP FINAL REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period Oct. '75 - prr.

Habitat Riparian — near 94 creek Field Analyst Sanz

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	M	old meat	No captures			
10/21	M	" "	" "			
10/22	M	" "	" "			
10/23	M	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period Oct '75 - yr

Habitat Aspen Field Analyst Sanz

Last 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	S	ground liver	No captures			
10/21	S	" "	" "			
10/22	S	" "	" "			
10/23	S	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP FINAL PROCESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a Sample Period Oct. '75-

Habitat North P-J Field Analyst Sam

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	L	sardines	No Captures			
10/21	L	"	" "			
10/22	L	"	" "			
10/23	L	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP-[illegible]

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a Sample Period Oct. '75 -pr

Habitat South P-J Field Analyst Sanz
Lyons 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	L	fermented egg attractant	No captures			
10/21	L	" "				
10/22	L	" "				
10/23	L	" "				

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a vicinity Sample Period Oct. 1975 -

Habitat Douglas Fir on bluffs Field Analyst J Baker

Lmw 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	S	Sardines	No Captures			
10/21	S	"	" "			
10/22	S	"	" "			
10/23	S	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBDSP-83 Location Tract C-a vicinity Sample Period Oct. 1975-pr

Habitat Sagebrush Field Analyst J. Baker

Crew 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	L	spiked meat	NO captures			
10/21	L	" "	" "			
10/22	L	" "	" "			
10/23	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project NRDSP - 83 Location Tract Cra Sample Period Oct 1975 - prc

Habitat Greasewood Sage Field Analyst Baker

blm 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	M	ground liver	No captures			
10/21	M	" "	" "			
10/22	M	" "	" "			
10/23	M	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

NRDSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a - vicinity Sample Period Oct '75

Habitat bottomland meadow Field Analyst J. Baker

bm 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/75	M	pred. odor attractant (fermented egg)	No Captures			
10/21	M	" "	"	"		
10/22	M	"	"	"		
10/23	M	"	"	"		

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Sept/Oct '75

Habitat Douglas-fir Field Analyst Baker

Form 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	S	spoiled meat	No Capture	—	—	
10/1/75	S	spoiled meat	No Capture	—	—	
10/2/75	S	spoiled meat	No Capture	—	—	
10/3/75	S	spoiled meat	No Capture	—	—	

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract P-a vicinity Sample Period Sept/Oct '75

Habitat Aspen Field Analyst Reyes

Last 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	M	Peanut Butter	No Capture	—	—	
10/1/75	M	Peanut Butter	No Capture	—	—	
10/2/75	M	Peanut Butter	No Capture	—	—	
10/3/75	M	Peanut Butter	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP Project

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Vicinity Sample Period Sept/Oct '75

Habitat Mixed bush Field Analyst Baker

Term 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/3/75	L	mouse & viscera	No Capture			
10/1/75	L	mouse & viscera	No Capture			
10/2/75	L	mouse & viscera	No Capture			
10/3/75	L	mouse & viscera	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Sept / Oct 75

Habitat Sagebrush Field Analyst Reyes

Live 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	M	spoiled meat	No Capture	—	—	
10/1/75	M	spoiled meat	No Capture	—	—	
10/2/75	M	spoiled meat	No Capture	—	—	
10/3/75	M	spoiled meat	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location BBOSP Tract C-a Vicinity Sample Period Sept/Oct 75

Habitat Pinyon / Juniper (north slopes) Field Analyst Kestrel

Area 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	L	Squirrel & viscera	No Capture	—		
10/1/75	L	squirrel & viscera	No Capture	—	—	
10/2/75	L	squirrel & viscera	No Capture	—	—	
10/3/75	L	squirrel & viscera	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Vicinity Sample Period Sept/Oct 75

Habitat Pinyon / Juniper (South slope) Field Analyst Harding

Jun 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	M	spoiled meat	No Capture	—	—	
10/1/75	M	spoiled meat	No Capture	—	—	
10/2/75	M	spoiled meat	No Capture	—	—	
10/3/75	M	spoiled meat	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP FINDINGS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a vicinity Sample Period Sept / Oct 75

Habitat Greasewood / Sage Field Analyst Sawy

Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/31/75	L	ground liver	No Capture	—	—	
10/1/75	L	ground liver	No Capture	—	—	
10/2/75	L	ground liver	No Capture	—	—	
10/3/75	L	ground liver	No Capture	—	—	

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract c-a Sample Period July 1975

Habitat Rabbitbrush — sear grid Field Analyst McGuire

Sum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	L	ground liver	No captures			
7/27	L	" "	" "			
7/28	L	" "	" "			
7/29	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

ROSP PROGRESS REPORT

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a - vicinity Sample Period July 1975

Habitat Aspen — on Bluffs Field Analyst Baker

Cur 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	Sm.	Sardines	No Captures			
7/27	S	"	—			
7/28	S	"	—			
7/29	S	"	—			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

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File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a vicinity Sample Period July 1975

Habitat Douglas fir — bluffs Field Analyst Baker

Issued 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	Sm	viscera	No captures -			
7/27	S	"				
7/28	S	"				
7/29	S	"				

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period July 1975

Habitat Mixed Brush - airplane ridge Field Analyst Baker

Jim 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	M	mouse	No Captures			
7/27	M	"	" "			
7/28	M	"	" "			
7/29	M	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP — 83 Location Tract c-a — vicinity Sample Period July '75

Habitat Sagebrush — near grid Field Analyst San E

Rev 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	M	ground liver	No captures			
7/27	M	" "				
7/28	M	" "				
7/29	M	" "				

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a Sample Period July '75

Habitat North - P-5 near grid Field Analyst Sanz

brm 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26/75	L	sardines	No Captures	—	—	NONE
7/27	L	"	" "	—	—	"
7/28	L	"	" "	—	—	"
7/29	L	"	" "	—	—	"

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period July '75

Habitat Greasewood Sage - near grid Field Analyst Sanz
Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
7/26	Lg	spoiled meat	No Captures			
7/27	L	" "	" "			
7/28	L	" "	" "			
7/29	L	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RB03P-83 Location Tract C-a Sample Period July '75

Habitat South slope P-J near grid Field Analyst McGuire
Lucas 7-7-76

Date	Trap* Size	Bait	Species	Age	Sex	Comments
7/26	Med	Viscera	No Captures			NONE
7/27	M	"	" "			
7/28	M	"	" "			
7/29	M	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

FROM PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period June '76

Habitat Douglas-fir Field Analyst Jerry Lum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/76	M	spoiled meat	No Capture			
6/21/76	M	spoiled meat	No Capture			
6/22/76	M	spoiled meat	No Capture			
6/23/76	M	spoiled meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract Sample Period June '75

Habitat Aspen Field Analyst Baker

hmw 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/76	S	spoiled meat	No Capture			
6/21/76	S	spoiled meat	No Capture			
6/22/76	S	spoiled meat	No Capture			
6/23/76	S	spoiled meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period June 75

Habitat Sage brush Field Analyst Baker

Cum 7-6-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/75	L	fermented egg	No Capture			
6/21/75	L	fermented egg	No Capture			
6/22/75	L	fermented egg	No Capture			
6/23/75	L	fermented egg	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period June 75

Habitat Pinyon / Juniper (south slope) Field Analyst Sam / Lem 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/75	M	ground liver	No Capture			
6/21/75	M	ground liver	No Capture			
6/22/75	M	ground liver	No Capture			
6/23/75	M	ground liver	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period June 76

Habitat Pinyon / Juniper (north slope) Field Analyst Savage

Rec'd 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/76	L	fermented egg	No Capture			
6/21/76	L	fermented egg	No Capture			
6/22/76	L	fermented egg	No Capture			
6/23/76	L	fermented egg	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP [illegible]

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location Boise Tract C-a Sample Period June 75

Habitat Mixed Brush Field Analyst Baker

Low 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/75	M	Sardines	No Capture			
6/21/75	M	Sardines	No Capture			
6/22/75	M	Sardines	No Capture			
6/23/75	M	Sardines	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period June, 75

Habitat Greasewood / Sagebrush (near grid A) Field Analyst Sanz

Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
6/20/75	L	spoiled fruit	No Capture			
6/21/75	L	spoiled fruit	No Capture			
6/22/75	L	spoiled fruit	No Capture			
6/23/75	L	spoiled fruit	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a vicinity Sample Period May '75

Habitat Rabbitbrush - near grid Field Analyst Mc Guire

Date 7-7-76

Date '75	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	Sm	viscera	No captures			
5/20	Sm	"	" "			
5/21	Sm	"	" "			
5/22	Sm	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a vicinity Sample Period May '75

Habitat Aspen — along bluffs Field Analyst Baker

Entered 7-7-76

Date '75	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	med	ground liver	No captures			
5/20	med	" "	" "			
5/21	med	" "	" "			
5/22	med	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a vicinity Sample Period May '75

Habitat Douglas Fir – on bluffs Field Analyst Baker

Rec'd 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	med.	Sardines	No captures			
5/20	med.	"	" "			
5/21	med.	"	" "			
5/22	med.	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a vicinity Sample Period May '75

Habitat Mixed brush - airplane ridge Field Analyst Baker

from 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	Lg.	spoiled meat	No captures			
5/20	Lg.	" "	" "			
5/21	Lg.	" "	" "			
5/22	Lg.	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period May '75

Habitat Greasewood-sage near grid 4 Field Analyst R. Sanga

Traps 7-7-76

Date '75	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	med	ground liver	No captures			
5/20	"	" "	" "			
5/21	"	" "	" "			
5/22	"	" "	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

roject RBOSP-83 Location Tract C-a & vicinity Sample Period May 1975

bitat South P-J near sm. mammal grid Field Analyst L. McGuire

Lim 7-7-76

Date '75	Trap Size*	Bait	Species	Age	Sex	Comments
19	Lg.	Sardines	No captures			
20	"	"	" "			
21	"	"	" "			
22	"	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP - 83 Location Tract C-a Sample Period May '75

Habitat North P-J near grid Field Analyst Sanz

Sanz 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
5/19	Lg	Mouse	No captures			
5/20	Lg	"	" "			
5/21	Lg	"	" "			
5/22	Lg	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project RBOSP-83 Location Tract C-a vicinity Sample Period May '75

Habitat Sagebrush nr. sm. mammal grid Field Analyst Sanz

Trans 7-7-76

Date '75	Trap* Size	Bait	Species	Age	Sex	Comments
5/19	Sm.	Viscera	No captures			
5/20	"	"	" "			
5/21	"	"	" "			
5/22	"	"	" "			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb 75

Habitat Sagebrush Field Analyst Cancelosi

Lwn 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	M	Sardines	No Capture			
2/18/75	M	Sardines	No Capture			
2/19/75	M	Sardines	No Capture			
2/20/75	M	Sardines	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

ROCKY FLATS ENVIRONMENTAL RECORDS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb. 75

Habitat Mixed Brush Field Analyst Cancelosi

Trans 7-7-75

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	S	fresh meat	No Capture			
2/18/75	S	fresh meat	No Capture			
2/19/75	S	fresh meat	No Capture			
2/20/75	S	fresh meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb. 75

Habitat Pinyon / Juniper (south slope) Field Analyst Cancelosi

Low 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	M	fresh meat	No Capture			
2/18/75	M	fresh meat	No Capture			
2/19/75	M	fresh meat	No Capture			
2/20/75	M	fresh meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb 75

Habitat Cottonwood meadow (near stream bed) Field Analyst Cancalosi

Loaned 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	M	ground liver	No Capture			
2/18/75	M	ground liver	No Capture			
2/19/75	M	ground liver	No Capture			
2/20/75	M	ground liver	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb 75

Habitat Pinyon/ Juniper (north slope) Field Analyst Cancalosi

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	L	spoiled meat	No Capture			
2/18/75	L	spoiled meat	No Capture			
2/19/75	L	spoiled meat	No Capture			
2/20/75	L	spoiled meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.13

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb 75

Habitat Greasewood / sagebrush Field Analyst Cancelosi

Sent 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/17/75	L	spoiled meat	No Capture			
2/18/75	L	spoiled meat	No Capture			
2/19/75	L	spoiled meat	No Capture			
2/20/75	L	spoiled meat	No Capture			

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb 75

Habitat Riparian Field Analyst Baker

Rec'd 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/11/75	M	muskrat lure	No Capture			
2/12/75	M	muskrat lure	No Capture			
2/13/75	M	muskrat lure	No Capture			
2/14/75	M	muskrat lure	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract Ca Sample Period Feb. 75

Habitat Mixed brush Field Analyst Sanz

Loan 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/11/75	M	fermented egg	No Captures			
2/12/75	M	fermented egg	No Captures			
2/13/75	M	fermented egg	No Captures			
2/14/75	M	fermented egg	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb. 75

Habitat Sagebrush Field Analyst Sang

Issued 7-7-76

Date	Trap* Size	Bait	Species	Age	Sex	Comments
2/11/75	M	spoiled fruit	No Captures			
2/12/75	M	spoiled fruit	No Captures			
2/13/75	M	spoiled fruit	No Captures			
2/14/75	M	spoiled fruit	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb. 75

Habitat South P/S Field Analyst Sany

Done 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/11/75	L	catnip lure	No Capture			
2/12/75	L	catnip lure	No Capture			
2/13/75	L	catnip lure	No Capture			
2/19/75	L	catnip lure	No Capture			

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract Ca Sample Period Feb. 75

Habitat North P/S Field Analyst Sanny

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/11/75	L	catnip lure	No Capture			
2/12/75	L	catnip lure	No Capture			
2/13/75	L	catnip lure	No Capture			
2/14/75	L	catnip lure	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Feb. 75

Habitat Greasewood / Sage Field Analyst Sang

Lim 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
2/11/75	M	fermented egg	No Capture			
2/12/75	M	fermented egg	No Capture			
2/13/75	M	fermented egg	No Capture			
2/14/75	M	fermented egg	No Capture			

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat Aspen (near grid G) Field Analyst Turner

Area 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	M	spoiled meat	No Capture			
12/10/74	M	spoiled meat	No Capture			
12/11/74	M	spoiled meat	No Capture			
12/12/74	M	spoiled meat	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat Douglas-fir (near grid F) Field Analyst Turner

Lmw 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	M	vole & viscera	No Capture			
12/10/74	M	vole & viscera	No Capture			
12/11/74	M	vole & viscera	No Capture			
12/12/74	M	vole & viscera	No Capture			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat mixed brush (on airplane ridge) Field Analyst Turner

Area 7-7-76

Date	Trap* Size	Bait	Species	Age	Sex	Comments
12/9/74	S	mouse & viscera	No Capture			
12/10/74	S	mouse & viscera	No Capture			
12/11/74	S	mouse & viscera	No Capture			
12/12/74	S	mouse & viscara	Mustela frenata	A	U	animal was lively & angry all white w/ black tip on tai

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat Sagebrush Field Analyst Ellinwood

LMW 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	M	Spoiled meat	No Captures			
12/10/74	M	spoiled meat	No Captures			
12/11/74	M	spoiled meat	No Captures			
12/12/74	M	spoiled meat	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP FILE Copy - Do Not Remove

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat Upland meadow Field Analyst Ellinwood
Lins 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	L	Sardines	No Captures			
12/10/74	L	Sardines	No Captures			
12/11/74	L	Sardines	No Captures			
12/12/74	L	Sardines	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RECAP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat Creosewood / Sagebrush Field Analyst Sammy Lucas 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	M	spoiled meat	No Captures			
12/10/74	M	spoiled meat	No Captures			
12/11/74	M	spoiled meat	No Captures			
12/12/74	M	spoiled meat	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROJECT FILES

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a. Sample Period Dec. 74

Habitat South slope Pinyon Juniper Field Analyst Turner

Mailed 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	M	Mouse & viscera	No Captures			
12/10/74	M	Mouse & viscera	No Captures			
12/11/74	M	Mouse & viscera	No Captures			
12/12/74	M	Mouse & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Dec. 74

Habitat North Slope pinyon - juniper Field Analyst Sanz 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
12/9/74	L	Squirrel & viscera	No Captures			
12/10/74	L	Squirrel & viscera	No Captures			
12/11/74	L	Squirrel & viscera	No Captures			
12/12/74	L	Squirrel & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Riparian Field Analyst Sanz

Draw 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	M	Sardines	No Captures			
11/13/74	M	Sardines	No Captures			
11/14/74	M	Sardines	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Bottomland meadow Field Analyst Simz

Sims 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	L	spoiled fruit	No Captures			
11/13/74	L	spoiled fruit	No Captures			
11/14/74	L	spoiled fruit	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location BBOSP Tract C-a Sample Period Nov. 74

Habitat Mixed Brush (airplane ridge) Field Analyst Sony
Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	M	ground liver	No Captures			
11/13/74	M	ground liver	No Captures			
11/14/74	M	ground liver	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Sagebrush Field Analyst Sanz

Rev 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	L	fermented egg	No Captures			
11/13/74	L	fermented egg	No Captures			
11/14/74	L	fermented egg	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83-C-73

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Pinyon Juniper (North Slope) near grid C Field Analyst Sanz
Area 7-7-76.

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	M	spoiled meat	No Captures			
11/13/74	M	spoiled meat	No Captures			
11/14/74	M	spoiled meat	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Pinyon - Juniper (south slope) Field Analyst Sanz

Last 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	M	spoiled meat	No Captures			
11/13/74	M	spoiled meat	No Captures			
11/14/74	M	spoiled meat	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Nov. 74

Habitat Greasewood / Sagebrush (near grid A) Field Analyst Sanz
Lmw 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
11/12/74	L	ground liver	No Captures			
11/13/74	L	ground liver	No Captures			
11/14/74	L	ground liver	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP C-a Sample Period Oct. 74

Habitat Aspen (near grid C-) Field Analyst Cancalosi

Lines 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	S	Mouse & viscera	No Captures			
10/21/74	S	Mouse & viscera	No Captures			
10/22/74	S	Mouse & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct. 74

Habitat Douglas-fir (near grid F) Field Analyst Cancelosi
Initials 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex[1]	Comments
10/20/74	M	Sardines	No Captures			
10/21/74	M	Sardines	No Captures			
10/22/74	M	Sardines	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP Progress Report

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct. 74

Habitat Pinyon - Juniper (north) near grid C Field Analyst Sawyer Lum 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	L	squirrel & viscera	No Captures			
10/21/74	L	squirrel & viscera	No Captures			
10/22/74	L	squirrel & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct. 74

Habitat Pinyon-Juniper (south slope) near grid B Field Analyst Turner

Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	S	Mouse & viscera	No Captures			
10/20/74	S	Mouse & viscera	No Captures			
10/20/74	S	Mouse & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct 74

Habitat Mixed brush (near grid E) Field Analyst Cancelosi

Trans 7-7-74

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	L	mouse & viscera	No Captures			
10/21/74	L	mouse & viscera	No Captures			
10/22/74	L	mouse & viscera	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRESS REPORT

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct. 74

Habitat Bottomland Meadow (near grid 1) Field Analyst Tanner

Date 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	M	ground liver	No Captures			
10/21/74	M	ground liver	No Captures			
10/22/74	M	ground liver	No Captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

RBOSP PROGRAMS DE...

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location BBOSP Tract C-a Sample Period Oct. 74

Habitat Sagebrush (near grid 2) Field Analyst Sanz

Trans 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	M	Sardines	No Captures			
10/21/74	M	Sardines	No Captures			
10/22/74	M	Sardines	No Captures			

File No. 83.C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Oct. 74

Habitat Greasewood / Sagebrush (near grid A) Field Analyst Sanz

from 7-7-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
10/20/74	L	Sardines	No Captures			
10/21/74	L	Sardines	No Captures			
10/22/74	L	Sardines	No Captures			

2.3.7 Avifauna

2.3.7.3 Results

2.3.7.3.1 General Avifauna

Strip transects and qualitative surveys were conducted June 25 - June 29, 1976. Fifty-three species were observed during strip transects. Tables 2.3-52 through 2.3-66 summarize the results of the June, 1976 strip transects and Table 2.3-67 depicts the species diversity indices calculated for the 15 transects. Transect #11 (sagebrush) exhibited the lowest species diversity index (H' = 1.182). Highest density estimate (22.6 birds/ha) was recorded for Transect #15 (riparian) and the lowest density estimate (1.8 birds/ha) was recorded for Transect #7 (upland meadow).

The olive-sided flycatcher (Nuttallornis borealis) was recorded for the first time in June 1976 on the Douglas Fir transect (#13), bringing the total number of bird species observed to date in the study area to 139.

2.3.7.3.1.1 Transect 1 (Bottomland Meadow)

A total of twelve species was recorded on this transect (Table 2.3-52). The most abundant species were the house finch (31.6% RA), vesper sparrow (15.8%), Brewer's sparrow (12.6% RA), and red-winged blackbird (11.9% RA). The diversity index (H') was 2.0 for this transect (Table 2.3-67).

2.3.7.3.1.2 Transect 2 (Sagebrush)

Ten species were recorded on this transect (Table 2.3-53). The most abundant species were the vesper sparrow (35.7% RA), mourning dove (28.6% RA), and Brewer's sparrow (14.3% RA). The diversity index was 1.7 for this transect (Table 2.3-67).

2.3.7.3.1.3 Transect 3 (Rabbitbrush)

Although eleven species were recorded (Table 2.3-54), this transect exhibited the third lowest species diversity index (H' = 1.379) (Table 2.3-67). This is in part attributed to the large number of Brewer's sparrows recorded during June (4.1 birds/ha). The dominance of one species caused a low equitability index (J = 0.575) and therefore, a low diversity index.

Other abundant species recorded on this transect during June were the song sparrow (1.0 birds/ha) and green-tailed towhee (0.8 birds/ha).

Table 2.3-52. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 1 DURING JUNE 1976*

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	4	1.00	1.0	0.2	1.6
COMMON NIGHTHAWK	6	1.00	1.0	0.3	2.4
CLIFF SWALLOW	5	1.00	1.0	0.3	2.0
SAGE THRASHER	1	1.00	1.0	<0.1	0.4
ROBIN	1	1.00	1.0	<0.1	0.4
MOUNTAIN BLUEBIRD	7	0.44	1.0	0.8	6.3
WESTERN MEADOWLARK	14	1.00	1.0	0.7	5.5
RED-WINGED BLACKBIRD	18	0.60	1.0	1.5	11.9
HOUSE FINCH	29	0.36	1.0	4.1	31.6
VESPER SPARROW	13	0.33	1.0	2.1	15.8
LARK SPARROW	3	0.13	1.0	1.2	9.5
BREWER'S SPARROW	3	0.09	1.0	1.6	12.6
TOTAL				13.0	

* # = number of individuals tallied along transect
CD = coefficient of detectability
BD = basal detectability adjustment
#/ha = estimated density as number per hectare
%RA = percentage relative abundance

Table 2.3-53. RESULTS* OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 2 DURING JUNE 1976

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	10	0.31	1.0	1.6	28.6
SCRUB JAY	1	1.00	1.0	<0.1	0.9
COMMON CROW	1	1.00	1.0	<0.1	0.9
SAGE THRASHER	1	0.13	1.0	0.4	7.1
ROBIN	1	0.25	1.0	0.2	3.6
MOUNTAIN BLUEBIRD	6	1.00	1.0	0.3	5.4
HOUSE FINCH	1	0.50	1.0	0.1	1.8
VESPER SPARROW	20	0.50	1.0	2.1	35.7
LARK SPARROW	1	0.50	1.0	0.1	1.8
BREWER'S SPARROW	6	0.38	1.0	0.8	14.3
TOTAL				5.7	

* See Table 2.3-52 for footnotes

Table 2.3-54. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 3 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	1	1.00	1.0	<0.1	0.7
COMMON NIGHTHAWK	2	1.00	1.0	0.1	1.5
ROUGH-WINGED SWALLOW	1	1.00	1.0	<0.1	0.7
HOUSE WREN	2	1.00	1.0	0.1	1.5
ROCK WREN	3	0.75	1.0	0.2	3.0
MOUNTAIN BLUEBIRD	2	1.00	1.0	0.1	1.5
HOUSE FINCH	1	0.50	1.0	0.1	1.5
GREEN-TAILED TOWHEE	10	0.63	1.0	0.8	11.9
VESPER SPARROW	2	0.50	1.0	0.2	3.0
BREWER'S SPARROW	40	0.50	1.0	4.1	59.7
SONG SPARROW	6	0.30	1.0	1.0	14.9
TOTAL				6.9	

* See Table 2.3-52 for footnotes

Table 2.3-55. RESULTS* OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 4 DURING JUNE 1976

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	3	0.50	1.0	0.3	3.0
COMMON NIGHTHAWK	3	1.00	1.0	0.2	1.5
BROAD-TAILED HUMMINGBIRD	2	0.13	1.0	0.8	7.9
COMMON FLICKER	1	1.00	1.0	<0.1	0.5
SCRUB JAY	5	1.00	1.0	0.3	2.5
PINYON JAY	28	1.00	1.0	1.4	13.8
BLACK-CAPPED CHICKADEE	4	0.13	1.0	1.6	15.8
PLAIN TITMOUSE	1	0.25	1.0	0.2	2.0
ROBIN	1	0.50	1.0	0.1	1.0
MOUNTAIN BLUEBIRD	1	0.50	1.0	0.1	1.0
BLUE-GRAY GNATCATCHER	8	0.25	1.0	1.6	15.8
SOLITARY VIREO	1	0.06	1.0	0.8	7.9
GREEN-TAILED TOWHEE	11	0.69	1.0	0.8	7.9
RUFOUS-SIDED TOWHEE	4	0.50	1.0	0.4	3.9
VESPER SPARROW	4	0.13	1.0	1.6	15.8
TOTAL				10.4	

* See Table 2.3-52 for footnotes

Table 2.3-56. RESULTS * OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 5 DURING JUNE 1976

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	1	1.00	1.0	<0.1	1.1
BROAD-TAILED HUMMINGBIRD	4	0.25	1.0	0.8	18.2
ROCK WREN	2	1.00	1.0	0.1	2.3
BLUE-GRAY GNATCATCHER	2	0.25	1.0	0.4	9.1
MACGILLIVRAY'S WARBLER	3	0.38	1.5	0.6	13.6
GREEN-TAILED TOWHEE	11	0.46	1.0	1.2	27.3
VESPER SPARROW	6	0.38	1.0	0.8	18.2
BREWER'S SPARROW	1	1.00	1.0	<0.1	1.1
SONG SPARROW	4	0.50	1.0	0.4	9.1
TOTAL				4.5	

* See Table 2.3-52 for footnotes

Table 2.3-57. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 6 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	1	1.00	1.0	<0.1	0.7
COMMON FLICKER	3	1.00	1.0	0.2	2.0
GRAY FLYCATCHER	1	0.13	1.5	0.6	8.0
SCRUB JAY	3	1.00	1.0	0.2	2.0
CLARK'S NUTCRACKER	1	1.00	1.0	<0.1	0.7
MOUNTAIN CHICKADEE	3	0.38	1.0	0.4	5.3
PLAIN TITMOUSE	2	0.25	1.0	0.4	5.3
WHITE-BREASTED NUTHATCH	1	0.50	1.0	0.1	1.3
HOUSE WREN	2	0.50	1.0	0.2	2.7
MOUNTAIN BLUEBIRD	1	0.50	1.0	0.1	1.3
BLUE-GRAY GNATCATCHER	3	0.25	1.0	0.6	8.0
SOLITARY VIREO	1	0.25	1.0	0.2	2.7
VIRGINIA'S WARBLER	2	0.25	1.5	0.6	8.0
BLACK-THROATED GRAY WARBLER	2	0.50	1.0	0.2	2.7
RED-WINGED BLACKBIRD	1	0.50	1.0	0.1	1.3
HOUSE FINCH	4	0.50	1.0	0.4	5.3
GREEN-TAILED TOWHEE	19	1.19	1.0	0.8	10.7
RUFOUS-SIDED TOWHEE	2	0.50	1.0	0.2	2.7
VESPER SPARROW	7	0.50	1.0	0.7	9.3
GRAY-HEADED JUNCO	2	0.13	1.0	0.8	10.7
CHIPPING SPARROW	5	0.50	1.0	0.5	6.7
BREWER'S SPARROW	2	0.50	1.0	0.2	2.7
TOTAL				7.7	

* See Table 2.3-52 for footnotes

Table 2.3-58. RESULTS * OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 7 DURING JUNE 1976

Species	#	CD	BD	#/ha	%RA
HORNED LARK	3	0.38	1.0	0.4	22.9
VIOLET-GREEN SWALLOW	7	1.00	1.0	0.4	20.0
COMMON RAVEN	1	1.00	1.0	<0.1	2.9
GREEN-TAILED TOWHEE	1	1.00	1.0	<0.1	2.9
RUFOUS-SIDED TOWHEE	2	1.00	1.0	0.1	5.7
VESPER SPARROW	8	0.50	1.0	0.8	45.7
TOTAL				1.8	

* See Table 2.3-52 for footnotes

Table 2.3-59. RESULTS* OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 8 DURING JUNE 1976

Species	#	CD	BD	#/ha	%RA
CLIFF SWALLOW	2	1.00	1.0	0.1	2.7
BLACK-BILLED MAGPIE	1	1.00	1.0	<0.1	1.3
ROBIN	2	1.00	1.0	0.1	2.7
MOUNTAIN BLUEBIRD	1	1.00	1.0	<0.1	1.3
VIRGINIA'S WARBLER	3	0.50	1.5	0.5	12.0
GREEN-TAILED TOWHEE	5	0.25	1.0	1.0	26.7
BREWER'S SPARROW	19	0.53	1.0	1.8	48.0
SONG SPARROW	2	0.50	1.0	0.2	5.3
TOTAL				3.8	

* See Table 2.3-52 for footnotes

Table 2.3-60. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 9 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	4	0.25	1.0	0.8	12.5
COMMON FLICKER	2	1.00	1.0	0.1	1.6
MOUNTAIN CHICKADEE	1	1.00	1.0	<0.1	0.8
WHITE-BREASTED NUTHATCH	4	0.17	1.0	1.2	18.8
HOUSE WREN	1	1.00	1.0	<0.1	0.8
ROCK WREN	5	0.63	1.0	0.4	6.3
MOUNTAIN BLUEBIRD	2	0.50	1.0	0.2	3.1
BLUE-GRAY GNATCATCHER	3	0.09	1.0	1.6	25.0
BLACK-THROATED GRAY WARBLER	6	0.38	1.0	0.8	12.5
HOUSE FINCH	2	0.50	1.0	0.2	3.1
GREEN-TAILED TOWHEE	8	0.57	1.0	0.7	10.9
VESPER SPARROW	3	0.75	1.0	0.2	3.1
CHIPPING SPARROW	1	0.50	1.0	0.1	1.6
TOTAL				6.6	

* See Table 2.3-52 for footnotes

Table 2.3-61. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 10 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	6	0.38	1.0	0.8	5.8
COMMON NIGHTHAWK	1	1.00	1.0	<0.1	0.4
BROAD-TAILED HUMMINGBIRD	1	0.25	1.0	0.2	1.4
COMMON FLICKER	1	1.00	1.0	<0.1	0.4
GRAY FLYCATCHER	2	0.25	1.5	0.6	4.3
WESTERN WOOD PEEWEE	1	0.50	1.0	0.1	0.7
SCRUB JAY	1	1.00	1.0	<0.1	0.4
MOUNTAIN CHICKADEE	6	0.50	1.0	0.6	4.3
PLAIN TITMOUSE	1	0.06	1.0	0.8	5.8
WHITE-BREASTED NUTHATCH	3	0.75	1.0	0.2	1.4
ROBIN	2	0.25	1.0	0.4	2.9
MOUNTAIN BLUEBIRD	2	0.50	1.0	0.2	1.4
BLUE-GRAY GNATCATCHER	4	0.17	1.0	1.2	8.7
SOLITARY VIREO	2	0.25	1.0	0.4	2.9
VIRGINIA'S WARBLER	1	0.25	1.5	0.3	2.2
BLACK-THROATED GRAY WARBLER	13	0.33	1.0	2.1	14.4
HOUSE FINCH	11	0.31	1.0	1.8	13.0
GREEN-TAILED TOWHEE	1	0.50	1.0	0.1	0.7
VESPER SPARROW	3	0.19	1.0	0.8	5.8
GRAY-HEADED JUNCO	7	0.11	1.0	3.3	23.1
TOTAL				14.2	

* See Table 2.3-52 for footnotes

Table 2.3-62. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 11 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
MOURNING DOVE	2	1.00	1.0	0.1	2.0
SCRUB JAY	1	1.00	1.0	<0.1	1.0
MOUNTAIN BLUEBIRD	8	0.67	1.0	0.6	12.1
GREEN-TAILED TOWHEE	7	0.44	1.0	0.8	16.2
VESPER SPARROW	3	0.38	1.0	0.4	8.1
BREWER'S SPARROW	15	0.25	1.0	3.1	60.6
TOTAL				5.1	

* See Table 2.3-52 for footnotes

Table 2.3-63. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 12 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
BLUE-GRAY GNATCATCHER	3	0.25	1.0	0.6	5.7
MACGILLIVRAY'S WARBLER	2	0.25	1.5	0.6	5.7
GREEN-TAILED TOWHEE	52	0.58	1.0	4.6	42.9
VESPER SPARROW	5	0.31	1.0	0.8	7.6
BREWER'S SPARROW	14	0.18	1.0	4.1	38.1
TOTAL				10.8	

* See Table 2.3-52 for footnotes

Table 2.3-64. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 13 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
COMMON FLICKER	3	1.00	1.0	0.2	1.2
OLIVE-SIDED FLYCATCHER	7	0.50	1.0	0.7	5.8
CLARK'S NUTCRACKER	3	1.00	1.0	0.2	1.2
BLACK-CAPPED CHICKADEE	6	0.50	1.0	0.6	5.0
MOUNTAIN CHICKADEE	7	1.00	1.0	0.4	2.9
RED-BREASTED NUTHATCH	8	0.57	1.0	0.7	5.8
ROBIN	2	0.50	1.0	0.2	1.7
HERMIT THRUSH	3	0.50	1.5	0.5	3.7
RUBY-CROWNED KINGLET	16	0.50	1.0	1.6	13.2
MACGILLIVRAY'S WARBLER	4	0.50	1.5	0.6	5.0
CASSIN'S FINCH	3	0.50	1.0	0.3	2.5
RED CROSSBILL	4	0.67	1.0	0.3	2.5
GREEN-TAILED TOWHEE	2	0.25	1.0	0.4	3.3
GRAY-HEADED JUNCO	38	0.34	1.0	5.7	46.3
TOTAL				12.4	

* See Table 2.3-52 for footnotes

Table 2.3-65. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 14 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
COMMON FLICKER	2	1.00	1.0	0.1	1.7
BLACK-CAPPED CHICKADEE	3	0.19	1.0	0.8	13.4
MOUNTAIN CHICKADEE	1	1.00	1.0	<0.1	0.8
RED-BREASTED NUTHATCH	2	0.25	1.0	0.4	6.7
HERMIT THRUSH	6	0.38	1.5	1.2	20.2
RUBY-CROWNED KINGLET	13	0.50	1.0	1.3	21.8
WARBLING VIREO	1	0.25	1.0	0.2	3.4
YELLOW-RUMPED WARBLER	1	0.50	1.0	0.1	1.7
MACGILLIVRAY'S WARBLER	1	0.13	1.5	0.6	10.1
BLACK-HEADED GROSBEAK	3	0.38	1.0	0.4	6.7
GRAY-HEADED JUNCO	2	0.13	1.0	0.8	13.4
TOTAL				6.1	

* See Table 2.3-52 for footnotes

Table 2.3-66. RESULTS OF STRIP TRANSECT CENSUSES OF BIRDS AT TRANSECT 15 DURING JUNE 1976 *

Species	#	CD	BD	#/ha	%RA
BROAD-TAILED HUMMINGBIRD	1	0.06	1.0	0.8	3.6
COMMON FLICKER	1	1.00	1.0	<0.1	0.2
SAY'S PHOEBE	1	0.25	1.0	0.2	0.9
BARN SWALLOW	1	1.00	1.0	<0.1	0.2
ROUGH-WINGED SWALLOW	4	1.00	1.0	0.2	0.9
PINYON JAY	1	1.00	1.0	<0.1	0.2
ROBIN	8	0.40	1.0	1.0	4.5
MOUNTAIN BLUEBIRD	5	0.16	1.0	1.6	7.3
BLUE-GRAY GNATCATCHER	13	0.20	1.0	3.3	14.5
STARLING	5	1.00	1.0	0.3	1.1
VIRGINIA'S WARBLER	1	0.25	1.5	0.3	1.4
RED-WINGED BLACKBIRD	35	0.50	1.0	3.6	15.9
HOUSE FINCH	20	0.63	1.0	1.6	7.3
GREEN-TAILED TOWHEE	9	0.32	1.0	1.4	6.4
VESPER SPARROW	6	0.30	1.0	1.0	4.5
BREWER'S SPARROW	29	0.32	1.0	4.7	20.9
SONG SPARROW	11	0.25	1.0	2.3	10.0
TOTAL				22.6	

* See Table 2.3-52 for footnotes

Table 2.3-67. Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all avifauna transects during sample period 9, June 1976

Transect Number	Vegetation Type	H'	E(H')	var(H')	H'(max)	J
1	Bottomland meadow	2.004	1.982	0.003	2.485	0.806
2	Sagebrush	1.696	1.656	0.007	2.303	0.737
3	Rabbitbrush	1.379	1.342	0.011	2.398	0.575
4	Pinyon-juniper/mixed brush	2.327	2.293	0.003	2.708	0.859
5	Mixed brush	1.870	1.824	0.004	2.197	0.851
6	Pinyon-juniper/sagebrush	2.834	2.764	0.003	3.091	0.917
7	Upland meadow	1.384	1.312	0.016	1.792	0.772
8	Greasewood-sagebrush	1.424	1.377	0.012	2.079	0.685
9	Pinyon-juniper (south slope)	2.126	2.079	0.005	2.565	0.829
10	Pinyon-juniper (north slope)	2.465	2.430	0.003	2.996	0.823
11	Sagebrush	1.182	1.157	0.009	1.792	0.660
12	Mixed brush	1.254	1.245	0.003	1.609	0.779
13	Douglas fir	1.949	1.923	0.006	2.639	0.739
14	Aspen	2.081	2.039	0.004	2.398	0.868
15	Riparian	2.325	2.307	0.001	2.833	0.821

2.3.7.3.1.4 Transect 4 (Pinyon-juniper/mixed brush)

Fifteen species were recorded (Table 2.3-55). This transect exhibited the third highest species diversity index (H' = 2.327) (Table 2.3-67). No single dominant species was recorded. However, the vesper sparrow, blue-gray gnatcatcher and black-capped chickadee were the most numerous, each species showing 15.8% relative abundance.

2.3.7.3.1.5 Transect 5 (Mixed brush)

Nine species were recorded (Table 2.3-56). This transect exhibited the third lowest avian density of the transects sampled in June. All species, with the exception of the green-tailed towhee, (1.2 birds/ha) were recorded in low numbers. The diversity index was 1.9 for this transect (Table 2.3-67).

2.3.7.3.1.6 Transect 6 (Pinyon-juniper/sagebrush)

This transect exhibited the highest species diversity index during June (H' = 2.834) (Table 2.3-67). This is in part attributed to the heterogeneity of the habitat providing for a greater potential for higher species diversity than those habitats such as the sagebrush habitat type which are more homogeneous.

Although 22 species were recorded, all species were recorded in low numbers, consequently this habitat type exhibited a low density avian population of 7.7 birds/ha (Table 2.3-57). The most abundant species were the green-tailed towhee (10.7% RA), gray-headed junco (10.7% RA) and vesper sparrow (9.3% RA).

2.3.7.3.1.7 Transect 7 (Upland meadow)

Of the 15 transects sampled in June, 1976, this transect exhibited the lowest density avian population (1.8 birds/ha) (Table 2.3-58). Six species were recorded, and all were tallied in low numbers, resulting in the low diversity index of 1.384 (Table 2.3-67). The structural composition (there is only one vegetative stratum) of the vegetation in this habitat type does not appear to provide enough food and cover for very many nesting individuals. The most abundant species observed within this habitat were the vesper sparrow (45.7% RA), horned lark (22.9% RA), and violet-green swallow (20.0% RA).

2.3.7.3.1.8 Transect 8 (Greasewood-Sagebrush)

Eight species were recorded on this transect resulting in the second lowest density estimate of the transects sampled in June,

1976 (3.8 birds/ha) (Table 2.3-59). This low density may be partially attributed to the very windy conditions during the period when this transect was surveyed. High winds tend to bias the data towards an underestimation of population density because of the observer's hindered ability to hear singing and calling individuals and changes in many species behavior during unfavorable weather conditions. The diversity index for this type was also fairly low (H' = 1.424) (Table 2.3-67).

The most abundant species were Brewer's sparrows (48.0% RA), green-tailed towhees (26.7% RA), and Virginia's warbler (12.0% RA).

2.3.7.2.1.9 Transect 9 (Pinyon-juniper - South Slope)

Thirteen species were recorded (Table 2.3-60). The most abundant species were the blue-gray gnatcatcher, white-breasted nuthatch, black-throated gray warbler, and mourning dove. These four species comprised 68.8% of the total relative abundance. The diversity index was 2.126 for this transect (Table 2.3-67).

2.3.7.3.1.10 Transect 10 (Pinyon-juniper - North Slope)

This transect exhibited the second highest species diversity index and second highest total density of the 15 transects sampled in June, 1976 (H' = 2.465 and 14.2 birds/ha, respectively) (Tables 2.3-67 and 2.3-61). The most abundant species were the gray-headed junco (23.1% RA), black-throated gray warbler (14.4% RA) and house finch (13.0% RA). Most species recorded within this transect are common breeding species of the pinyon-juniper woodland and its associated understory. The one exception is the vesper sparrow. This species is generally a brushland species (Bailey and Niedrach, 1965) and is not typical of the pinyon-juniper woodland. However, the three individuals recorded along this transect were associated with a small stand of sagebrush located within the pinyon-juniper stand.

2.3.7.3.1.11 Transect 11 (Sagebrush)

This transect exhibited the lowest species diversity index (H' = 1.182) (Table 2.3-67). Only six species were recorded within this transect and the distribution of individuals among these species was disproportionate (J' = 0.660). Of the six species recorded, the Brewer's sparrow comprised 60.6 percent of the relative abundance (Table 2.3-62). The other five species, green-tailed towhee, mountain bluebird, vesper sparrow, mourning dove and scrub jay, were all noted in small numbers.

2.3.7.3.1.12 Transect 12 (Mixed brush)

This transect exhibited the second lowest species diversity index (H' = 1.254) Table 2.3-67). Although five species were recorded on this transect in comparison with six recorded on Transect #11 (H' = 1.182), Transect 12 had a higher species diversity index than Transect 11 because of its higher equitability index (J = 0.779 and 0.660, respectively). The five species recorded on this transect (Table 2.3-63), green-tailed towhee (42.9% RA), Brewer's sparrow (38.1% RA), vesper sparrow (7.6% RA), MacGillivray's warbler (5.7% RA), and blue-gray gnatcatcher (5.7% RA), are all common breeding species of the brushland (Davis, 1969).

2.3.7.3.1.13 Transect 13 (Douglas fir)

Fourteen species were recorded (Table 2.3-64). The most abundant species were the gray-headed junco (46.3% RA) and ruby-crowned kinglet (13.2% RA). All other species were tallied in low numbers. The olive-sided flycatcher was recorded for the first time in the study area along this transect during June 1976 sampling. This species is a common summer resident of Colorado's coniferous forests (Bailey and Niedrach, 1965).

2.3.7.3.1.14 Transect 14 (Aspen)

Eleven species were recorded (Table 2.3-65). The most abundant species were the ruby-crowned kinglet (21.8% RA), hermit thrush (20.2% RA), gray-headed junco (13.4% RA), and black-capped chickadee (13.4% RA). These species are all common breeding species of montane forests (Bailey and Niedrach, 1965).

2.3.7.3.1.15 Transect 15 (Riparian)

This transect exhibited the highest avian density of all 15 transects sampled in June, 1976 (22.6 birds/ha) (Table 2.3-66). Many species were recorded in large numbers. Of the 17 species recorded, the numerically dominant species were Brewer's sparrow (4.7 birds/ha), red-winged blackbird (3.6 birds/ha), blue-gray gnatcatcher (3.3 birds/ha), and song sparrow (2.3 birds/ha). The diversity index was 2.325 for this transect (Table 2.3-67).

2.3.7.3.2 Qualitative Surveys

Qualitative surveys were conducted in conjunction with the strip transects during June 25-29, 1976. Twenty songbird species were recorded during these surveys, all of which were recorded on strip transects conducted at the same time. Species composition of qualitative surveys complemented that recorded in similar habitats sampled by strip transects.

During the 1976 breeding season investigations, two songbird nests were identified on the study area. A pair of barn swallows and a pair of Say's phoebes both nested in a cabin located in the Right Fork of Stake Springs Draw.

2.3.7.3.3 Upland Gamebirds

2.3.7.3.3.1 Sage Grouse

A sage grouse brood survey was conducted July 21-22, 1976. One adult male sage grouse was observed on Landing Strip Ridge during the second day of the survey.

Numerous opportunistic sightings of sage grouse were made throughout the summer. All birds were observed in four areas: (1) 2 adults were seen in mixed brush on Landing Strip Ridge Road approximately 3 miles northeast of Cathedral Bluffs; (2) Two groups of 7 adults and 1 adult and 2 juveniles were seen in sagebrush and mixed brush vegetation types, respectively, on Bar-D Mesa; (3) Three sightings of 1 adult and 3 juveniles, 2 adults and 2 adults were made on Airplane Ridge between 1 1/2 and 2 miles northeast of Cathedral Bluffs; and (4) Eight different sightings of adults and juveniles were recorded in the mixed brush, sage/mixed brush and upland meadow and bald-mixed brush vegetation types all along the Cathedral Bluffs road in the study area.

2.3.7.3.3.2 Blue Grouse

The areas in which booming blue grouse males were recorded during the May 1976 blue grouse survey were revisited on August 10 and 11, 1976. Seven adult males, four adult females, and four juveniles were recorded.

Opportunistic sightings of blue grouse occurred throughout the summer. All sightings occurred in the mixed brush, mixed brush/bald, mixed brush/aspen, bald and sagebrush vegetation types along the Cathedral Bluffs.

2.3.7.3.3.3 Mourning Dove

The mourning dove is the most frequently encountered upland gamebird in the study area. It was recorded in every dominant vegetation type in the lower elevations of the study area during the June 1976 songbird quantitative and qualitative censuses. It is not frequently encountered at the higher elevations near Cathedral Bluffs.

The vicinity of Tract C-a supports varying numbers of this species in different vegetation types. The density estimates calculated for this species from the strip transect data range from 1.6 birds/ha in the sagebrush type of 84 Mesa (Transect #2) (Table 2.3-53) to less than 0.1 birds/ha in rabbitbrush, lowland mixed brush and pinyon-juniper/sagebrush vegetation types.

2.3.7.3.4 Waterfowl

Waterfowl surveys were conducted at Stake Springs impoundment on June 25-28, 1976 and August 10-13, 1976. During June waterfowl counts the common snipe, sora, American coot, green-winged teal, Wilson's phalarope, cinnamon teal and killdeer were recorded in small numbers at the impoundment. Sora, American coot, Wilson's phalarope and cinnamon teal were also noted on the impoundment during opportunistic sightings on June 25 and 26, 1976.

The cinnamon teal, sora, and spotted sandpiper were the only species recorded during the waterfowl surveys conducted in August, 1976. The fewer numbers of individuals and low species diversity noted on the impoundment during August in contrast to June is probably in part due to the secretive nature of the male waterfowl during their fall molt and the dispersion of many family flocks away from the nesting grounds prior to migration.

2.3.7.3.5 Raptors

2.3.7.3.5.1 Aerial Surveys

An aerial raptor survey was conducted on June 10, 1976 but had to be aborted due to high winds. It was repeated June 21, 1976. Eighteen individuals representing six raptor species were recorded. Three golden eagles, 1 red-tailed hawk, 1 sharp-shinned hawk, 2 prairie falcons, 3 American kestrels, and 8 common ravens were encountered.

The last aerial raptor survey of RBOSP's baseline studies was conducted on August 9, 1976. Two marsh hawks were the only raptors recorded during this survey.

2.3.7.3.5.2 Ground Survey

A ground raptor nest search was conducted June 13-16, 1976. Nine nests were located during this survey. Eight of these nests were inactive. One active golden eagle eyrie with two 9-10 week old nestlings was located on the Cathedral Bluffs. An active sharp-shinned hawk nest containing at least one nestling was observed in the pinyon-juniper woodland during the July invertebrate sampling trip. This was the first sharp-shinned hawk nest located on the Tract C-a study area.

Nine raptor species were opportunistically encountered during the 1976 breeding season on Tract C-a and environs. The most abundant species encountered were the common raven, American kestrel, and red-tailed hawk. Other species observed were the golden eagle, prairie falcon, marsh hawk, sharp-shinned hawk, great horned owl,

and Swainson's hawk. Swainson's hawks were recorded on several occasions throughout the summer in the bottomland meadow habitat at the confluence of Corral Gulch and Yellow Creek. This is an uncommon nesting species in western Colorado (Davis, 1969).

Literature Cited

Bailey, A.M. and R.J. Niedrach. 1965. Birds of Colorado. Volume 1 and 2. Denver Museum of Natural History. Denver, Colorado. 895 pages.

Davis, W.A. 1969. Birds in western Colorado. Colorado Field Ornithologist, Boulder, Colorado.

2.3.7.5 Avifauna Raw Data

2.3.7.5 Avifauna Raw Data

FIELD DATA SHEET -- EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.1.2.1

Sheet No. 1 of 1

Transect # 1 Vegetation Type Bottomland meadow Sample Period 9

Date 6/25/76 Time (24 hour) 1930-2015 Temperature (°C) at Start 22°

Wind (Beaufort Code #) 2 Sky Condition Code # 2+ Observer P. L. Kramer

Comments: QA Check [illegible] 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Mountain bluebird	505	B			//		///	//	//
Robin	993	A						/	
Vesper sparrow	658	B			////	HHT /	///		
Housefinch	629	B		HHT	//	HHT ///	HHT HHT		
Cliff swallow	430	A			//	/	/	/	
Lark sparrow	659	B		/	//				
Common nighthawk	397	A		//	///	/			
Red-winged blackbird	596	B		/	//	HHT	// HHT	///	
Western meadowlark	574	A		//	//	HHT	HHT		
Brewer's sparrow	673	B		//			/		
Mourning dove	310	A					///	/	
Sagethrasher	987	B						/	

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.912.3

Sheet No. 1 of 1

Transect # 2 Vegetation Type Sagebrush Sample Period 9

Date 6/26/76 Time (24 hour) 1970-2090 Temperature (°C) at Start 25°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P. A. Kennedy

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Mountain Bluebird	305	B					III	III	I
Vesper sparrow	638	B		III	IIII	IIII	II IIII		
Brewer's sparrow	673	R		I		IIII	I		
Mourning dove	310	B		II	I	IIII	I	II	I
Common crow	999	A					I		
Common raven	997	A							II
House finch	609	B					I		
Scrub jay	739	A					I		
Lark sparrow	639	B					I		
Robin	993	B				I			
Sage thrasher	987	B			I				

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.2.7

Sheet No. 1 of 1

Transect # 3 Vegetation Type Rabbitbrush Sample Period 9

Date 6/26/76 Time (24 hour) 1825-1910 Temperature (°C) at Start 26°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P. L. Kennedy

Comments: QA Check bmw 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Brewer's sparrow	673	B		III	IIII IIII	IIII IIII I	IIII IIII III		
Green-tailed towhee	645	B			II	III	III	II	
Vesper sparrow	658	B					II		
Mountain bluebird	705	B						II	
Mourning dove	310	B						I	
Common nighthawk	347	A				II			
Rock wren	479	B					II	I	
Song sparrow	683	B		I	I	III	I		
Rough-winged swallow	435	A					I		
House wren	473	B					I	I	
House finch	629	B					I		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.1.2.10

Sheet No. 1 of 1

Transect # 4 Vegetation Type Pinyon-juniper/mixed brush Sample Period 9

Date 6/28/76 Time (24 hour) 903-2008 Temperature (°C) at Start 26°

Wind (Beaufort Code #) 0 Sky Condition Code # 2- Observer P. L. Kennedy

Comments: QA Check bum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Rufous-sided towhee	696	B				11	11		
Green-tailed towhee	695	B			11		////11	11	
Blue-gray gnatcatcher	506	B			1111	111	1		
Pinyon jay	441	A		1111		~~////~~	~~////~~ ////1	~~////~~ 111	1
Scrub jay	439	A			11		11	1	
Broad-tailed hummingbird	354	B		1		1			
Common flicker	373	A				1			
Common nighthawk	397	A					1	11	
Plain titmouse	461	B				1			
Black-capped chickadee	432	B		11		1	1		
Solitary vireo	526	B		1					
Mountain bluebird	505	B					1		
Robin	493	B					1		
Vesper sparrow	658	B		11			11		
Mourning dove	310	B					111		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.09.12.11

Sheet No. 1 of 1

Transect # 5 Vegetation Type Mixed brush Sample Period 9

Date 6/28/76 Time (24 hour) 715-1830 Temperature (°C) at Start 32°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P. A. Keane

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Vesper sparrow	658	B			1	III	1	1	
Broad-tailed hummingbird	334	B		1	1	II			
Green-tailed towhee	695	B				HH I	IIII	1	
Blue-gray gnatcatcher	506	B			1	1			
Rock wren	779	B						II	
Song sparrow	683	B				1	III		
Mourning dove	310	B						1	
MacGillivray's warbler	581	C				II	1		
Brewer's sparrow	673	B						1	

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9/3.12

Sheet No. 1 of 1

Transect # 6 Vegetation Type Pinyon-juniper/Sagebrush Sample Period 9

Date 6/20/76 Time (24 hour) 0705-0815 Temperature (°C) at Start 12°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer [illegible]

Comments: QA Check bmw 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Gr[illegible]	695	B		1		IIII	IIII		
Vesper sparrow	658	B				II	III		
Brewer's sparrow	673	B					II		
House finch	609	B			1	1	II		
Virginia's warbler	547	C				II			
Clark's nutcracker	496	A						1	
Mourning Dove	310	B						1	
Common flicker	373	A				II		1	
House wren	473	B					II		
Black-[illegible]	561	B					II		
Gray-headed junco	663	B	1			1			
Scrub jay	139	A				II		1	
Rufous-sided [illegible]	696	B				1	1		
Red-winged blackbird	596	B					1		
Chipping sparrow	671	B	1		1	1	11		
[illegible]-backed [illegible]	468	B					1		
Solitary vireo	526	B				1			
Gray flycatcher	919	C			1				
Mo[illegible]	454	B				II	1		
Plain titmouse	461	B				II			
Blue-gray [illegible]	506	B		1	1	1			
Mountain bluebird	505	B					1		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83

File No. 83.C.91.2.13

Sheet No. 1 of 1

Transect # 7 Vegetation Type Bald Sample Period 9

Date 6/27/76 Time (24 hour) 1945-2035 Temperature (°C) at Start 23°

Wind (Beaufort Code #) 1 Sky Condition Code # 0 Observer P. L. Kennedy

Comments: QA Check bmw 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Violet-green swallow	432	A					////	///	
Horned lark	428	B				//	/		
Common raven	447	A						/	
Vesper sparrow	658	B		/		///	/	///	
Mountain bluebird	505	B							/
Rufous-sided towhee	696	B						//	
Green-tailed towhee	695	B						/	

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.12.14

Sheet No. 1 of 1

Transect # 8 Vegetation Type Greasewood - Sagebrush Sample Period 9

Date 6/25/76 Time (24 hour) 735-825 Temperature (°C) at Start 26°

Wind (Beaufort Code #) 6-10mph Sky Condition Code # 1 Observer P.G. Kennedy

Comments: Very windy - gusts up to 15 mph QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Black-billed magpie	449	A						1	
Green-tailed towhee	695	B			11	111			
Robin	493	B						11	
Brewer's sparrow	673	B		111	1111	1111	1111	1	
Cliff swallow	930	A		1	1				
Virginia's warbler	547	C			1	1	1		
Mountain bluebird	305	B						1	
Song sparrow	683	B				1	1		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.1.2.15

Sheet No. 1 of 1

Transect # 9 Vegetation Type: South slope p-j woodland Sample Period 9

Date 6/27/76 Time (24 hour) 0610-0715 Temperature (°C) at Start 5°

Wind (Beaufort Code #) 1 Sky Condition Code # 0 Observer P. L. Kennedy

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Green-tailed towhee	645	B				1	𝍸 1	1	
House wren	473	B						1	
Mountain chickadee	459	B						1	
Mourning dove	310	B		1			111		
Rock wren	479	B				1	111	1	
Blue-gray gnatcatcher	506	B		11		1			
Black-throated gray warbler	561	B		1		1	1111		
Vesper sparrow	658	B					11	1	
House finch	609	B					11		1
Common flicker	373	A						11	
White-breasted nuthatch	468	B		1	11		1		
Mountain bluebird	505	B				1	1		
Chipping sparrow	671	B					1		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.1.2.16

Sheet No. 1 of 1

Transect # 10 Vegetation Type North slope p-j woodland Sample Period 9

Date 6/27/76 Time (24 hour) 0745-0855 Temperature (°C) at Start 15°C

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P.L. Kroncl

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Virginia's warbler	547	C				1			
Mourning dove	310	B			11	1	11	1	
Black-throated gray warbler	561	B		1	1111	11	1111 1		
Blue-gray gnatcatcher	506	B		1	11	1			
House finch	629	B			1	1111 111	11		11
Mountain chickadee	451	B			1	1	1111		
Vesper sparrow	638	B		1		1	1		
Scrub jay	479	A						1	
Robin	493	B				11			
Plain titmouse	461	B		1					
White-breasted nuthatch	468	B					11	1	
Common flicker	373	A					1		
Solitary vireo	526	B				11			
Western wood peewee	425	B					1		
Gray flycatcher	419	C			1	1			
Gray-headed junco	663	B		1111	11	1			
Green-tailed towhee	645	B					1		
Broad-tailed hummingbird	354	B				1			
Mountain bluebird	505	B					11		
Common nighthawk	397	A					1		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.0.912.17

Sheet No. 1 of 1

Transect # 11 Vegetation Type Sagebrush Sample Period 9

Date 6/24/76 Time (24 hour) 0600-0640 Temperature (°C) at Start 11°

Wind (Beaufort Code #) 1 Sky Condition Code # 0 Observer P.L. Kennedy

Comments: QA Check bum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip 0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	Fly Over
Mountain bluebird	305	B				II	IIII	II	
Green-tailed towhee	695	B		I		III	III		
Brewer's sparrow	673	B		IIII	IIII	IIII II			
Vesper sparrow	638	B				II	I		
Mourning dove	310	B					I	I	
Scrub jay	439	A						I	

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Project No. 83 File No. 53.C.91.2.18

Sheet No. 1 of 1

Transect # 12 Vegetation Type Mixed brush Sample Period 9

Date 6/28/76 Time (24 hour) 0830-0930 Temperature (°C) at Start 18°

Wind (Beaufort Code #) 2 Sky Condition Code # 0 Observer P. L. Kerr

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Green-tailed towhee	675	B		III	IIII II	IIII IIII III	IIII IIII IIII II	IIII II	
Vesper sparrow	638	B			II	I	II		
MacGillivray's warbler	381	C				II			
Brewer's sparrow	673	B		IIII	III	IIII	I		
Blue-gray gnatcatcher	306	B			I	II			

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 330.9.12.19

Sheet No. 1 of 1

Transect # 13 Vegetation Type Douglas fir Sample Period 9

Date 6/29/76 Time (24 hour) 0730-0936 Temperature (°C) at Start 17°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P.J. Kennedy

Comments: QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Gray-headed junco	663	B		IIII	HHT HHT II	HHT HHT II	HHT HHT		
Ruby-crowned kinglet	509	B				HHT	HHT HHT I		
Red-breasted nuthatch	469	B				I	HHT I	I	
Mountain chickadee	454	B				II	II	III	
MacGillivray's warbler	581	C				II	II		
Clark's nutcracker	496	A					I	II	
Hermit thrush	499	C					III		
Red crossbill	691	B				I	II	I	
Black-capped chickadee	452	B				III	III		
Green-tailed towhee	615	B				II			
Common flicker	373	A			I	I		I	
Cassin's finch	628	B				I	II		
Olive-sided flycatcher	406	B				III	IIII		
Robin	493	B				I	I		

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FIELD DATA SHEET - EMLEN STRIP CENSUS

Project No. 83 File No. 83.C.9.1.2.20

Sheet No. 1 of 1

Transect # 19 Vegetation Type Aspen Sample Period 9

Date 6/23/76 Time (24 hour) 715-915 Temperature (°C) at Start 25°

Wind (Beaufort Code #) 0 Sky Condition Code # 1 Observer P. L. Kennedy

Comments: Very little is blooming QA Check Lum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Black-headed grosbeak	620	B			1	1		1	
Ruby-crowned kinglet	509	B			1111	1111	1111		
Warbling vireo	535	B				1			
Common flicker	373	A					1	1	
Hermit thrush	499	C		1	1	11	1	1	
Black-capped chickadee	452	B		1			11		
Gray-headed junco	663	B			11				
Yellow-rumped warbler	555	B					1		
Red-breasted nuthatch	469	B			1	1			
Mountain chickadee	454	B						1	
MacGillivray's warbler	581	C			1				

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Project No. 83 File No. 83.C.9.1.2.21

Sheet No. 1 of 1

Transect # 15 Vegetation Type Riparian Sample Period 9

Date 6/28/76 Time (24 hour) 0607-0723 Temperature (°C) at Start 2°

Wind (Beaufort Code #) 0 Sky Condition Code # 0 Observer P.L. Kennedy

Comments: QA Check Sum 8-2-76

Species	Code No.	Adj. Cat.	Number Observed per Strip						Fly Over
			0-10'	10-25'	25-50'	50-100'	100-200'	200-400'	
Robin	793	B				5	3		
House finch	629	B		2		7	7		
Brewer's sparrow	673	B		4	6	10	5	1	
Mourning dove	310	B							1
Pinyon jay	491	A						1	67
Scrub-tailed flycatcher	645	B			2	5	2		
Blue-gray gnatcatcher	506	B			5	4	1		
Song sparrow	683	B		3	4	4			
Red-backed blackbird	596	B		1	2	9	8		
Virginia's warbler	547	C				1			
Mountain bluebird	505	B		2		2	1		
Say's phoebe	411	B				1			
Vesper sparrow	658	B			1	4	1		
Starling	321	B						5	
Rough-winged Swallow	435	A			2	1	1		
Killdeer	200	A		1					
Broad-tailed hummingbird	359	B		1					
Common Flicker	373	A						1	
Barn Swallow	429	A					1		

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QUALITATIVE AVIAN RECORD

Date 6/25/76 Observer P.K. Kennedy Project 83 Sun 8-13-76

Species	Location and Habitat Type	Number	Time	Sky	Temperature	Wind
	Ryan Gulch - S.W. of cattlewire with Gal-bulay gulch - Riparian-pasture		1505	1	26°C	4
Red-winged blackbird		𝍸 𝍸 𝍸 𝍸 𝍸 𝍸				
Brewer's blackbird		𝍸 𝍸 𝍸 𝍸				
Mountain bluebird		11				
Cliff swallow		𝍸				
Robin		1				
Vesper sparrow		1				

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QUALITATIVE [illegible]IAN RECORD

Date 6/26/76 Observer R Kennedy Project 83 Lum 8-13-76

Species	Location and Habitat Type	Number	Time	Sky	Temperature	Wind
	Greasewood Sagebrush House Draw		0910	0	17°C	1
Green-tailed towhee		II				
Robin		II				
Blue-gray gnatcatcher		IIII				
Mourning dove		III				
Vesper Sparrow		I				
Brewer's Sparrow		IIII				
Pinyon jay		I				
	Pinyon-juniper woodland Sagebrush-Indigetaph. at Stake Springs Draw		1520	0	27°C	2
Brewer's sparrow		I				
Gray-headed junco		III				
	Pinyon-juniper woodland Knoll Ridge		1550	0	27°C	0
Solitary vireo		I				
Mountain chickadee		I				
White-breasted nuthatch		I				
Hermit thrush		IIII				
Scrub jay		I				
Mourning dove		I				
Great horned owl		I				

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QUALITATIVE AVIAN RECORD

Date 6/27/76 Observer PL Kennedy Project 83 (see 8-13-76)

Species	Location and Habitat Type	Number	Time	Sky	Temperature	Wind
	Sagebrush / Grass		0935	0	23°C	1
Lark sparrow		11				
Mountain bluebird		1				
Mourning dove		1				
Vesper sparrow		𝍸 11				
Brewer's sparrow		111				
Green-tailed towhee		1				
	Bald / Cathedral Bluffs north of loading Stop					
	Ridge		1520	0	25°C	4
Horned lark		111				
Violet-green swallow		1111				
	Mixed bush / Cathedral					
	Bluffs - road to Kusuk		1615	1	22°C	1
Green-tailed towhee		𝍸 𝍸				
Vesper sparrow		1				

83.C.9.2.2.2

Sage Grouse Brood Count

7/21/76

Tract Ca study area

83/05

05:30 – 0:950

Temperature Begin 10°C End 20°C

Wind Begin 0 End 1

Sky Begin 0 End 0

No sage grouse observed on route

7/22/76

Tract C-a study area

83/05

0605 – 10:00

Temperature begin 9°C end 17°C

Wind Begin 0 End 0

Sky Begin 0 End 0

Leg 1 no sage grouse observed

Leg 2 no sage grouse observed

Leg 3 1 adult ♂ sage grouse observed

Leg 4 No sage grouse observed

RBOSP PROGRESS REPORT

Initial 8-7-

83.C.9.2.4.1

Results of Blue Grouse Brood Survey

8/10/76

2 immatures and 1 adult hen

2 adult males

8/11/76

1 adult male

1 adult male

1 adult male

1 adult hen and 1 immature

2 adult males, 2 adult hens and 1 immature

P.L. Kennedy - observer

83/05

RBOSP PROGRESS REPORT

1

fwm 8-13-76

File No. 73.C.9.3.2
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 6/25/76 Observer P. L. Kearsley

Pond Stake Springs Time 0850-0905 Wind 1 Temp 19° C

Percent Sky Overcast 0 Comments QA Check bmw 8-2

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Green-winged teal	1					
American coot			1			
Sora			1			
Wilson's phalarope		11				

040/060175

RBOSP PROCESSED

F. No. 83.C.9.3.2
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 6/25/76 Observer P.L. Kennedy
Pond Slate Springs Time 1320-1335 Wind 4 Temp 11°C
Percent Sky Overcast (cale) 2 Comments QA Check hmw 8-2-7

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Wilson's phalarope		11				
American coot			1			
Green-winged teal	1					
Cinammon teal	1	1				
Scaup			1	1		

040/060175

RECEIVED PROGRESS REPORT

File No. 83.C.9.3.2
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS -- FIELD DATA FORM

Project Y3 Date 6/26/86 Observer P.L. Kennedy
Road State Springs Time 2215-0200 Wind 2 Temp 14°C
Percent Sky Overcast 0 Comments QA Check Jun 8-2-7

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Common Snipe			1			
Sora			1	1		
American coot			1			

040/060175

File No. 83.C.9.3.2
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 8B Date 6/26/86 Observer P.A. Keaveny
Pond Stake Springs Time 1445 - 1500 Wind 1 Temp 26°C
Percent Sky Overcast 0 Comments QA Check brm 8-2-1

Species	Number Observed: Adult M	Adult F	Adult U	Juv	Unkn	Notes
Sora				1		The sora chick stays in the reeds and does not venture into the center of the pond as does the adult. A juvenile coyote came up to the edge of the pond and took a drink at the same time the juvenile sora, the only shorebird on the pond at the time went into the reeds. It appeared again at the edge of the reeds after the eagle was gone.

040/060175

File No. 83.C.232
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project S3 Date 6/26/76 Observer P.L. Kennedy
Pond Slade Springs Time 1725-1790 Wind 2 Temp 29°C
Percent Sky Overcast 0 Comments QA Check bm 8-2

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Sora			1	111		

File No. 8209.32
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 6/28/76 Observer P. Kennedy
Pond State Jaws Time 2015-2100 Wind 0 Temp 20°C
Percent Sky Overcast 1 Comments QA Check Lem 8-13

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
killdeer			1			
Cinnamon teal		1		III		The ♀ was swimming with the 3 young ducklings. They were only on the pond for about 30 seconds and then they went into the reeds.

040/060175

REDOX PROGRESS REPORT

File No. 82 0.952
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 8/4/76 Observer P L Kennedy
Pond State Springs Time 1500 - 1515 Wind 1 Temp 24°C
Percent Sky Overcast 34 Comments QA Check bem 8-2

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
						No birds observed

File No. 83.0.9.5.2
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 8/12/76 Observer P.L. Kennedy
Pond Stale Springs Time 0625-0690 Wind 0 Temp 10°C
Percent Sky Overcast 0 Comments _____ QA Check bm 8-20

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Blue-winged teal	11	1				
Sora			1	11		
Spotted sandpiper			1			

040/060175

File No. 83-C-932
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 8/10/76 Observer PL Kennedy
Pond Stake Springs Time 1910 – 1925 Wind 0 Temp 18° C
Percent Sky Overcast 3+ Comments QA Check 8-20

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Blue-winged teal or			1			
Cinammon teal						
Spotted sandpiper			1			

BROOD CHECKLIST REPORT

040/060175

File No. 83C932

Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 8/10/76 Observer R.L Kennedy

Pond Stake Springs Time 1905 - 1920 Wind 3 Temp 21°C

Percent Sky Overcast 5 Comments QA Check Sun 8-20

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
						120 birds observed

File No. 83 C 932
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83 Date 13 Aug, 1976 Observer Saiz
Pond Strike spinas Time 0637-0650 Wind 0 mph Temp 11°C
Percent Sky Overcast 75 Comments QA Check Lim 8-20

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
SORA RAIL	1	1				walking about and feeding
						near south edge of pond

File No. 83.C.9.32
Sheet No. 1 of 1

SHOREBIRD AND WATERFOWL COUNT RESULTS - FIELD DATA FORM

Project 83/05 Date 10 Aug 76 Observer C.C. Kling
Pond Stake Springs Time 1945 - 2000 Wind 0 Temp 19°C
Percent Sky Overcast 0 Comments QA Check brw 8-2

Species	Number Observed					Notes
	Adult			Juv	Unkn	
	M	F	U			
Blue-winged teal	1	1				Feeding and resting near edge of pond
Teal sized duck					1111	The 4 unknowns were partially screened by sagebrush and could not be positively identified - they may have been slightly smaller than the two ducks in view

040/060175

83.C.9.4.1.1

AERIAL RAPTOR CENSUS REPORT AND SUMMARY FORM

Project/Study 83/66 Date Flown 6/21/76 Survey Area Tract C-a and environs

Observers: R front / P.L. Kennedy L rear / C.L. Kling Pilot/Aircraft L. Paur / Cessna 2

Time: Start 0740 Finish 0941 Est. ~~Ground~~ Speed 80-90 m.p.h Altitude 90-150 fe

Weather: Temperature 68°C Wind 2 Percent Cloud Cover 0

Air calm Light excellent Analyst P.L. Kennedy

Species	Number			Location			Notes and Comments
	Adlt.	Imm.	Unkn	Section	Town.	Range	
p-shinned hawk			1	27	15	98W	p-j / sagebrush ecotone adjacent to S. Van Horn Bu
merican kestrel			1	20	15	98W	p-j / sagebrush ecotone on 84 mesa
d-tailed hawk			1	3	25	99W	p-j / sagebrush; ridge South of Box Elder Gulc
merican Kestrel			1	30	15	99W	p-j / mixed brush; Dead Horse Ridge
olden eagle		2		33	15	100W	two eaglets on nest #55 on Cathedral Bluff
olden eagle		1		16	15	100W	1 eaglet about 9 weeks old on nest # 10
merican Kestrel	1			22	15	98W	P-J type
awk			6	19	15	98W	sagebrush on 84 mesa
awk			2	13	15	98W	
rairie falcon			2	12	25	99W	

RBCCP PROGRESS REPORT

Sum 7-13-76 ECI

83.C.9.4.4.1.1

AERIAL RAPTOR CENSUS REPORT AND SUMMARY FORM

Project/Study 83/66 Date Flown 8/9/76 Survey Area RBOSP - Tract C-5

Observers: R/front - P.L. Kennedy L/rear - C.L. King Pilot/Aircraft Lowe / Cessna 206

Time: Start 12:19 Finish 14:07 Est. Ground Speed 85-95 mph Air Altitude 100-200 feet

Weather: Temperature 71°F-71°F Wind 4 Percent Cloud Cover 1 - 2

Air very choppy Light excellent Analyst P.L. Kennedy

Species	Number			Location			Notes and Comments
	Adlt.	Imm.	Unkn	Section	Town.	Range	
harsh hawk			1	36	15	100W	mixed brush habitat
harsh hawk			1	28	15	100W	
							No raptors observed by C.L.K. this fl

RBOSP PROGRESS REPORT Jan 8-20-76 (ECI)

AVIAN NESTING RECORD (non-raptorial) 83.C.9.6.2

Species Barn Swallow Site Stake Springs Cab. r

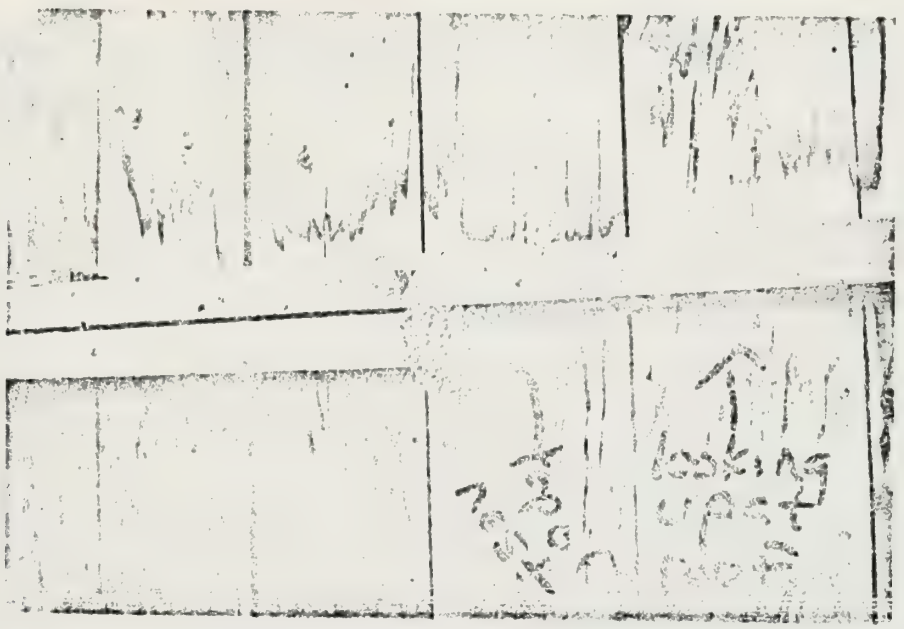
Nest No. 2 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff _____

c. Ground _____ d. Other (Explain) Beam supporting house

Nest Exposure not exposed to sun Nest Size mudnest - 4"x4"x3"

Height of Nest Above Ground 8 feet Number of Alternate Nests 0



AUG • 76 •

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trax #6 Picture #(+2)

Date	Eggs	Nestlings	Age	Comments
7/21/76				Observed adults entering and leaving nest. Could not see into nest, but I could reach into it. I could not feel eggs or young in nest. Nest is composed of mud and is lined with grass and a few bird feathers

044/051076

bmw 8-2-76

ecology consultants

83.0.96.2

AVIAN NESTING RECORD (non-raptorial)

Species Say's phoebe Site Stake Springs Cabin Out-

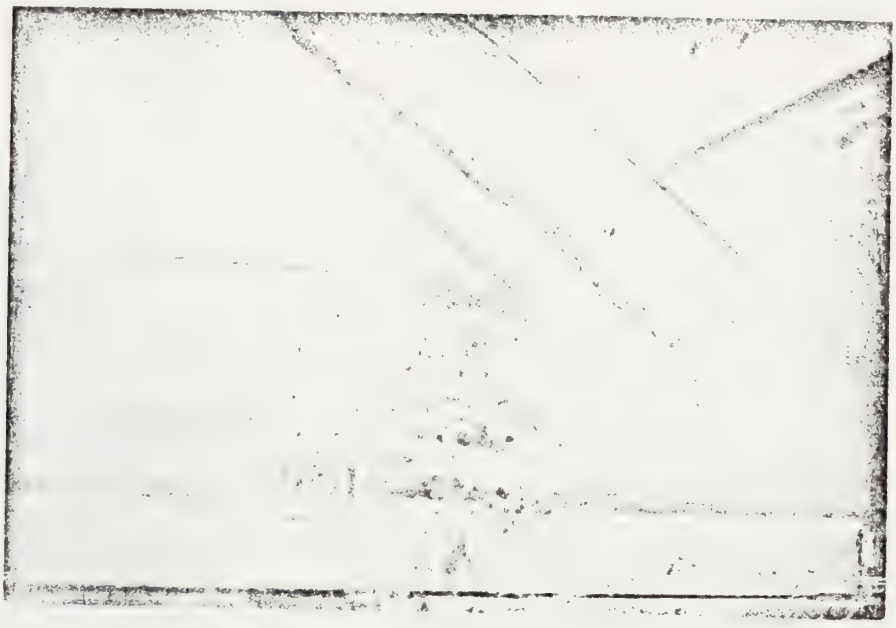
Nest No. 3 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff _____

c. Ground _____ d. Other (Explain) lodge - an outhouse entrance

Nest Exposure not exposed to sun Nest Size 3" x 3" x 2" - nestling of grass and cotton string like materia

Height of Nest Above Ground 7 feet Number of Alternate Nests 0



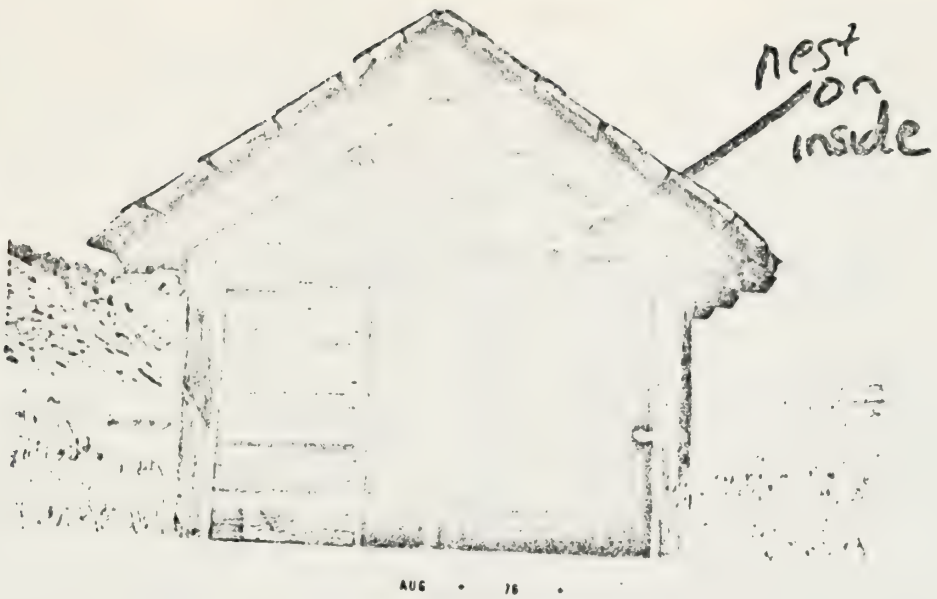
AUG • 76 •

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trax #6 Picture # 3, 4, 5 + 6

Date	Eggs	Nestlings	Age	Comments
7/21/76		2	>1 week	The adult has been observed entering and leaving the out-house since the end of May, 1976.

BROSP PROGRESS REPORT

Lmm 8-2-



AUG • 76 •

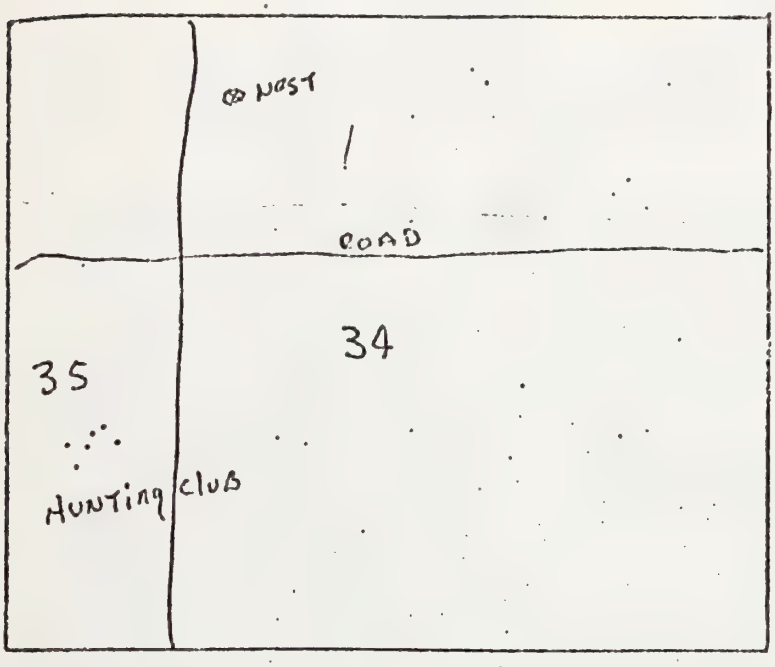
RBOSP PROBLEMS

AVIAN NESTING RECORD

Species Red-tailed hawk Site NW¼ Sec 34 T15 R99W Nest No. Two

Date 4-30-75 Observer D. VanHorn Project 83

Nest Location



Nest Type

Substrate

Rim height (cm)

Comments:

New nest.
North side of pinyon pine
South facing slope

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Date	Eggs	Nestlings	Age	Comments
4-30	2			
5/4/76				could not find nest. no red-tailed hawks observed in area.

Summary: Clutch size Completed? Date Incubation Started

Young Hatched Hatching Date

Young Fledged Fledging Date

Nest Destroyed? Date Cause

PROGRESS REPORT

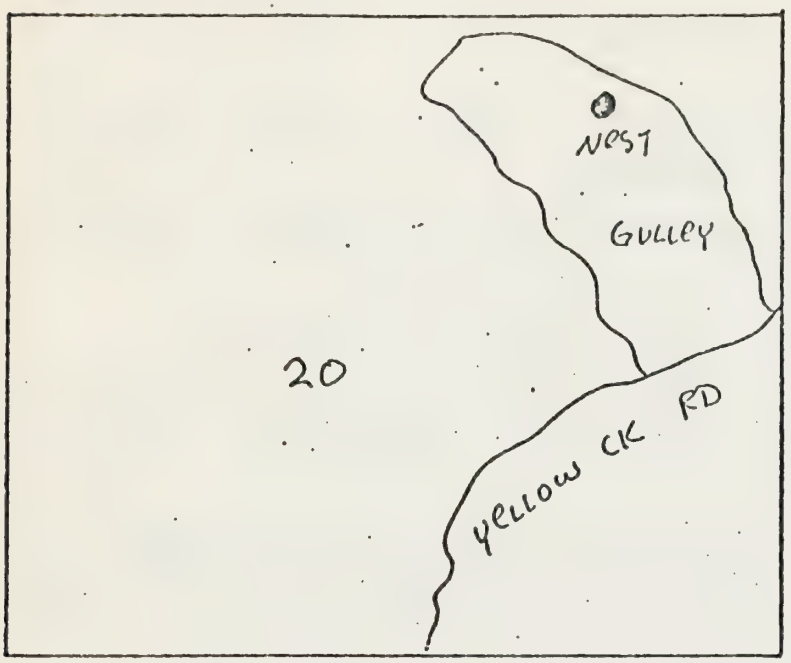
Lum 6-9-76

AVIAN NESTING RECORD RBM 7/21 ecology consultants, 83.C.9.4.2.2.1

Species Red-tailed hawk Site NE 1/4 Sec 20 T1S R98W Nest No. F-1VC

Date 4-29-75 Observer D. VanHorn Project 83

Nest Location



Nest Type cliff - sandstone

Substrate stick nest - on ledge

Cliff
Rim height (cm) 28'

height of nest above ground - 18'

Comments:

LOCATED ON SANDSTONE BLUFF.

OLD NEST.

WEST FACING SLOPE

North-west facing exposure

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Picture #4+5 - Trix #3

Date	Eggs	Nestlings	Age	Comments
4-29	3			ALL STAINED
5/13/76				Nest - inactive; no fresh green mater No adult birds observed
				Picture on file with ECI

Summary: Clutch size (

Young Hatched I

Young Fledged I

Nest Destroyed? I

[illegible] REPORT

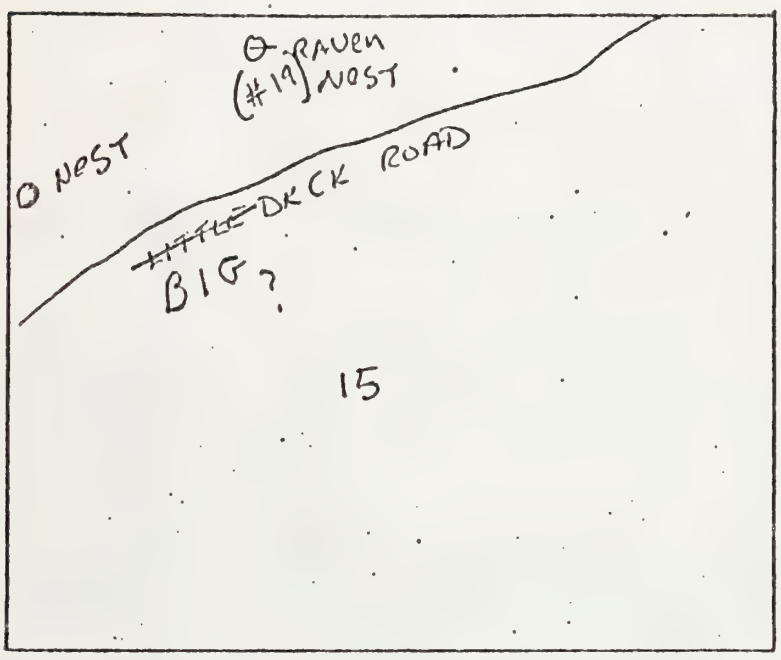
brm 6-9-76

AVIAN NESTING RECORD Rec'd 7/21 ecology consultants 83.C.9.4.2.2.1

Species Red-tailed hawk Site NW¼ Sec 15 T1S R99W Nest No. SIX

Date 4-29-75 Observer D. Van Horn Project 83

Nest Location



Nest Type Stick nest 2'x 3' x 2½'

Substrate Sandstone cliff-ledge

Rim height (cm) 75' 25'

Comments:

LOCATED ON SANDSTONE EROSION ca 10' ABOVE GROUND

NEW NEST.

SOUTH-WEST SLOPE

← Sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern.

Picture # 13 + 14 tri-x roll #2

Date	Eggs	Nestlings	Age	Comments
4-29	2			ONE STAINED, ONE NOT
5/12/76	✓			Active Ad. RTH low on nest in incubating posture. other Ad. RTH perched in a tree above nest. RTH on nest flew off as I approached; I left so as not to keep it off eggs too long. Did not look into nest. Fresh juniper branches & feathers appeared to line nest.

Summary: Clutch size

Young Hatched

Young Fledged

Nest Destroyed?

[illegible] REPORT

DB

Lmi 6-9-76

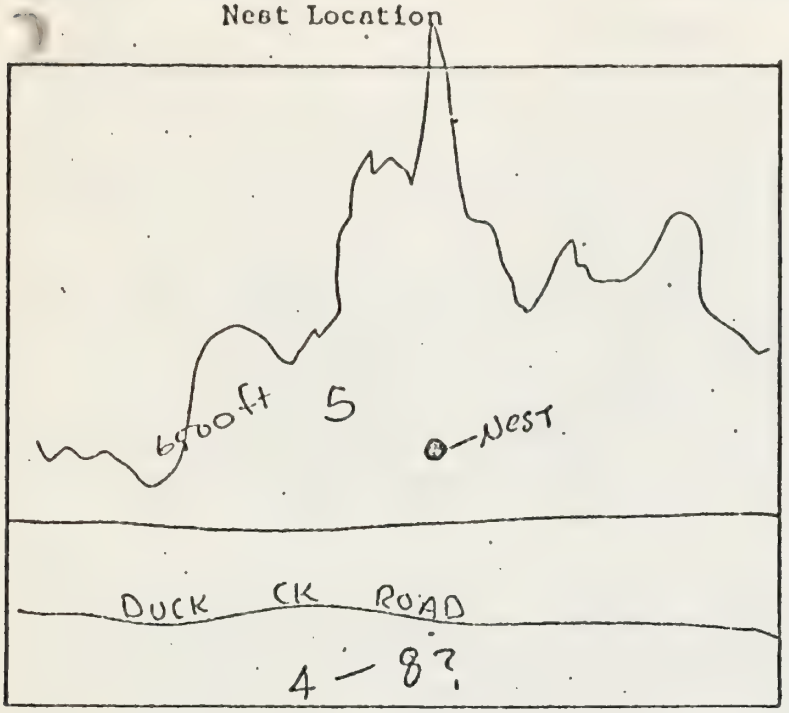
AVIAN NESTING RECORD

ecology consultants, inc. 83.C.7.4.2.2.1

Species American Kestrel Site SE1/4 Sec 5 T1S R98W Nest No. T61

Date 4-29-75 Observer D. Van Horen Project 83

Nest Location



Nest Type Pine Snag Cavity

Substrate Tree debris

Rim height (cm) —

Comments:
Cavity of P. pine snag.
Deep cavity, over 12"
Barely see one ~~xxxx~~ egg.
EAST slope
Nest facing SOUTH

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Pictures: 5-8 Tri-x roll #2

Date	Eggs	Nestlings	Age	Comments
4 29	1			Unable to determine if other eggs present. Nest in a deep cavity, staining of egg -(?)
5/12/76				Inactive, no Kestrals observed in the area.

Summary: Clutch size ____ Co

Young Hatched ____ Ha

Young Fledged ____ Fi

Nest Destroyed? ____ Da

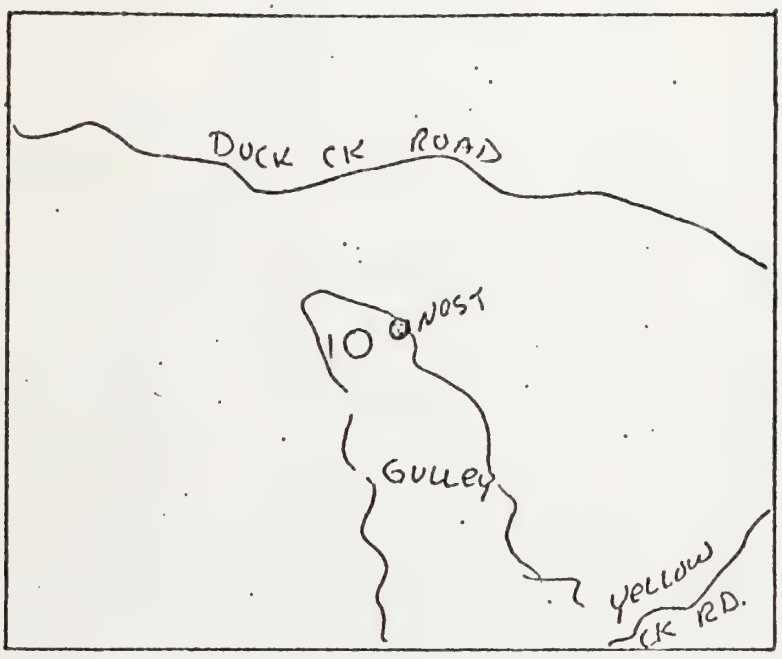
Lum 6-8-11

AVIAN NESTING RECORD ...m 7/21 ecology consultants, 83.C.9.4.2.2.1-1

Species Great Horned Owl Site SW1/4 Sec10 T1S R9W Nest No. 12

Date 4-29-75 Observer D. Van Horn Project 83

Nest Location



Nest Type

Substrate

Rim height (cm)

Comments:

SUBSTRATE of a few twigs.
under rock ledge
deep erosion area
south facing nest

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Date	Eggs	Nestlings	Age	Comments
4-29	2			BOTH very stained
5/13/76				Could not find nest

Summary: Clutch size Completed? Date Incubation Started

Young Hatched Hatching Date

Young Fledged Fledging Date

Nest Destroyed? Date Cause

JA

bmw 6-9-76

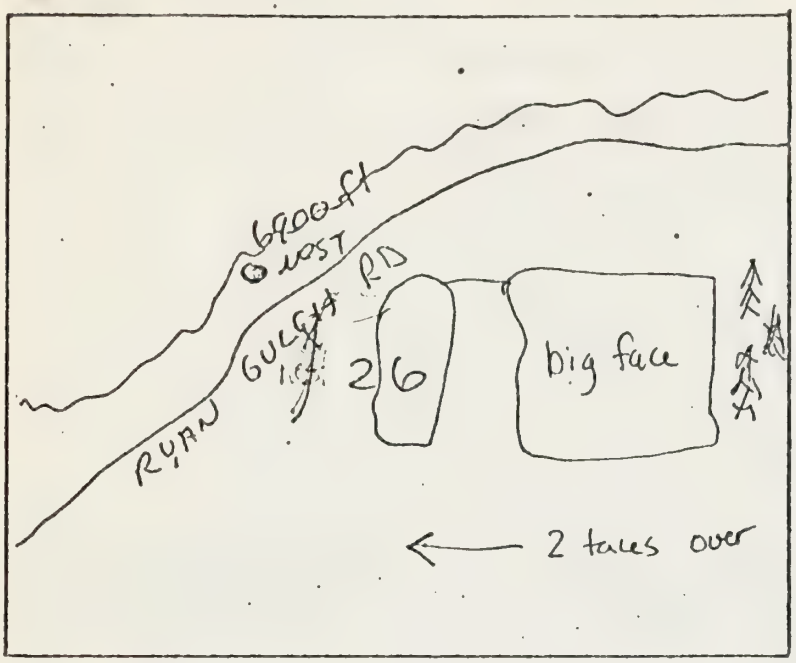
AVIAN NESTING RECORD

Ecology consultants 83.C.9.4.2.2.1

Species Great horned owl Site NW 1/4 Sec 26 T25 R99W Nest No. 13

Date 4-28-75 Observer D. Van Horn Project 83

Nest Location



Nest Type Sandstone cliff - pothole

Substrate None

Rim height (cm)

Comments:

on erosion level
60 feet high.
Bare ground of ledge
South-east facing nest
Rabbit (Lepus) in nest
No alternate

← Sketch in nest location relative to identifiable landscape features, grid syst or vegetation pattern.

picture on file with ECI

Date	Eggs	Nestlings	Age	Comments
4 28		2	6-8 days.	oldest w/ eye flutter. left eye partially open.
5/11/76	√?			Ad. Red-tailed hawk on nest in incubating posture

Summary: Clutch size Completed? Date Incubation Started

Young Hatched Hatching Date

Young Fledged Fledging Date

Nest Destroyed? Date Cause

PROJECT PROGRESS REPORT

JB

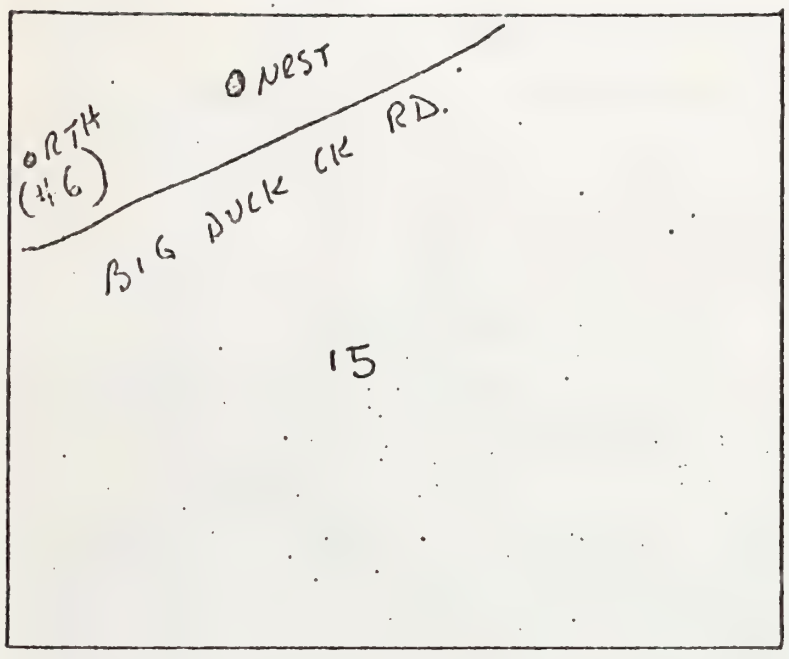
bm 6-9-76

AVIAN NESTING RECORD (Cr 7/71) ecology consultants, inc. 83.C.9.4.2.2.1

Species Common Raven Site NW 1/4 Sec 15 T1S R99W Nest No. 19

Date 4-29-75 Observer D. Van Horn Project 83

Nest Location



Nest Type Stick - 2 1/2' x 2 1/2 x 3'

Substrate Sandstone cliff

Rim height (cm) 100'

Comments:

SOUTH Facing Nest.
In erosion level
~60' Above ground

No alternate nests

← Sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern.

Picture # 11+12 Tri-x - #2

Date	Eggs	Nestlings	Age	Comments
4-29		2	6-10	dup.
5/12/76				Active; both adults observed on nest only for short period - either courting or are feeding young; young cannot be seen. Further investigation proved there are no young. 2 Ravens observed in area all afternoon. They have been noted inspecting the nest; are probably preparing it for nesting.

Summary: Clutch size

Young Hatched

Young Fledged

Nest Destroyed?

COPY OF SCORES REPORT JR

bsw 6-9-76

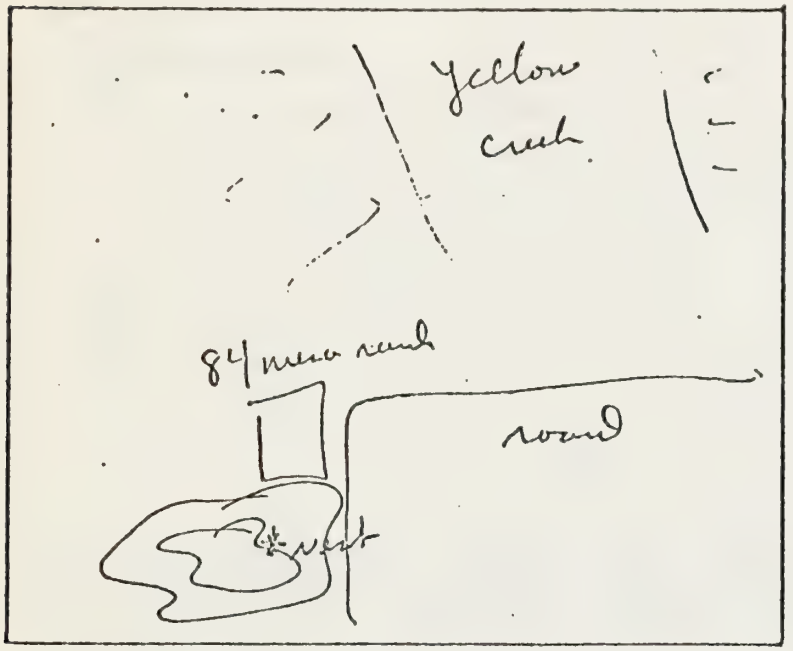
AVIAN NESTING RECORD

ecology consultants

Species American kestrel Site 84 Mesa Ranch RDM 7/21 Nest No. 21

Date 6/7/75 Observer Van Horn Project 83

Nest Location



Nest Type Cliff

Substrate dirt

Rim height (cm) ϕ ?

Comments: ———

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Date	Eggs	Nestlings	Age	Comments
6/4/75	ϕ	3	2 weeks	
5/13/76				could not find any evidence of a kestrel nest on any of the cliffs around 84 ranch. Mouth wash. There are two possible areas about ½ mile west along Carol Gulch. Those are sites #42.

Summary: Clutch size ? Completed? ? Date Incubation Started ?

Young Hatched 3 Hatching Date ?

Young Fledged ? Fledging Date ?

Nest Destroyed? ? Date ? Cause ?

bmw 6-9-76

ECI

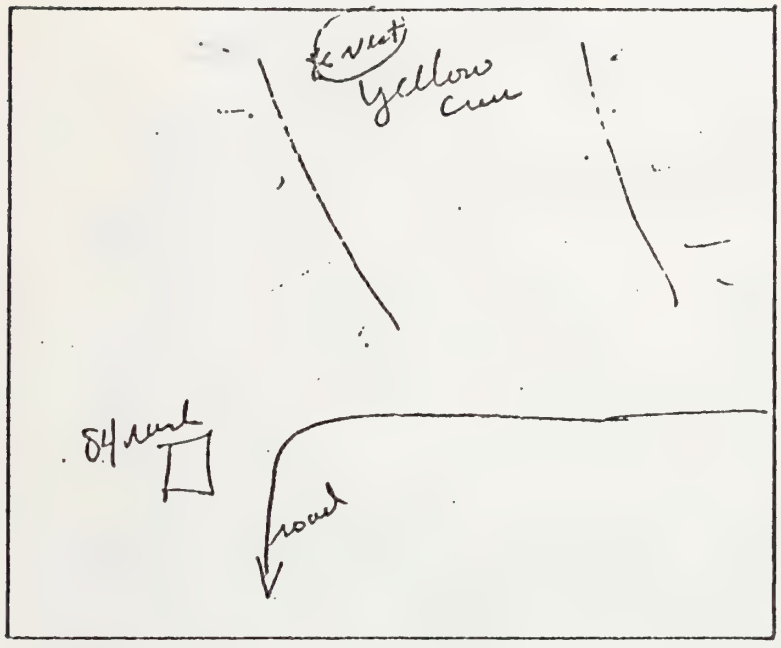
ecology consultants, I

AVIAN NESTING RECORD

Species Marsh hawk Site 84 Mesa Ranch ROW 7/21 Nest No. 23

Date 6-11-75 Observer Van Horn Project 83

Nest Location



← Sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern.

Nest Type ground

Substrate grass & small twigs

Rim height (cm) 0.5 cm

Comments:

Date	Eggs	Nestlings	Age	Comments
6/11/75	0	3	2 to 3 weeks	(birds away from nest)
5/13/76				Could not find nest

Summary: Clutch size ? Completed? ? Date Incubation Started ?

Young Hatched 3 Hatching Date ?

Young Fledged ? Fledging Date ?

Nest Destroyed? N/A Date N/A Cause N/A

bmw 6-9-76

AVIAN NESTING RECORD

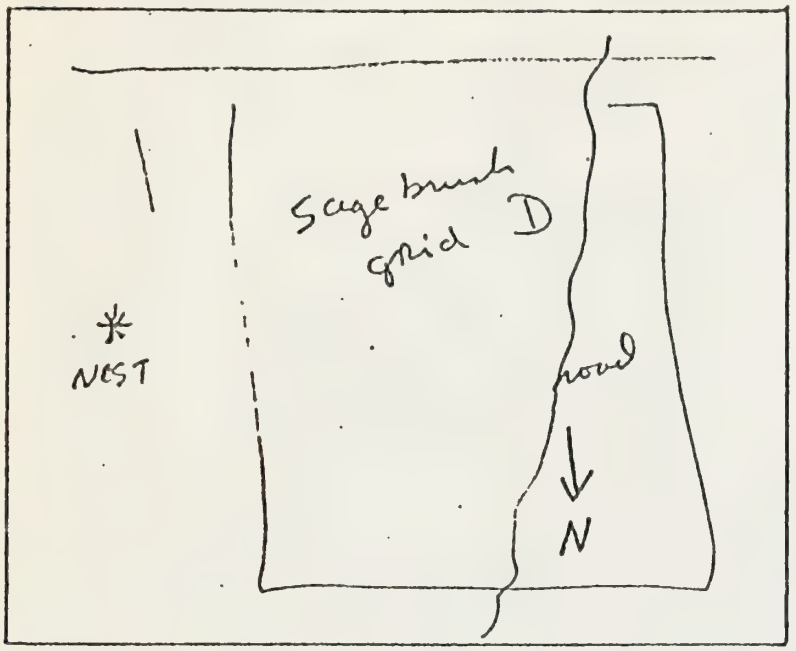
ecology consultants,

xRM 7/21

Species American kestrel Site Sage Grid D Nest No. 25

Date 6-11-75 Observer Van Horn Project 83

Nest Location



Nest Type Pine Snag - Cavity

Substrate tree debris

Rim height (cm) —

Comments: —

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern.

Date	Eggs	Nestlings	Age	Comments
6-5	∅	2	3 weeks old	
5/14/76				Could not find nest

Summary: Clutch size ? Completed? ? Date Incubation Started ?

Young Hatched 2 Hatching Date ?

Young Fledged ? Fledging Date ?

Nest Destroyed? ? Date ? Cause ?

Lmw 6-9-76

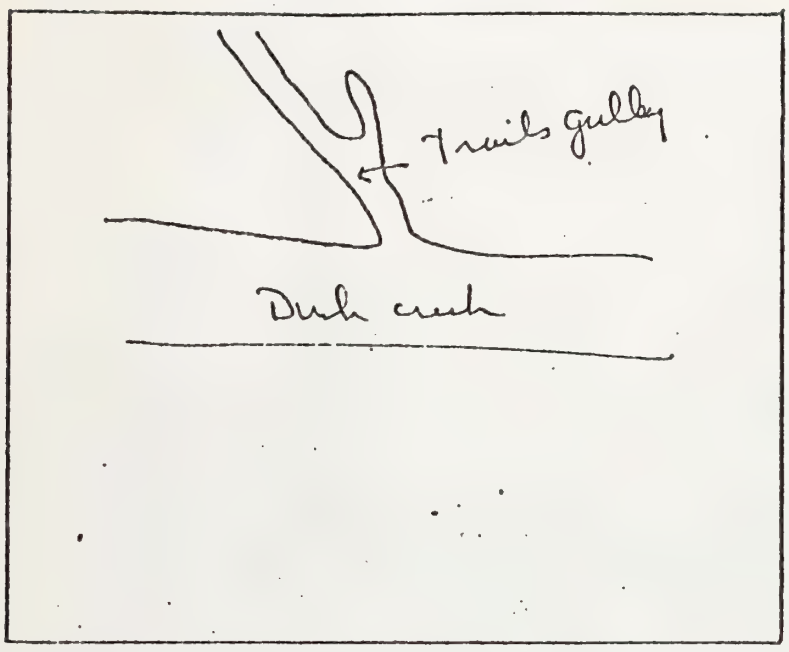
AVIAN NESTING RECORD

ECI ecology consultants

Species Golden eagle Site Duck Creek RDM 7/21 Nest No. 21

Date 6-25-75 Observer Van Horn Project 83

Nest Location



Nest Type Cliff — sandstone

Substrate Stick nest -

Rim height (cm) 16 cm

Comments: nest is NW exposure no green material. part of nest. on ground. No picture camera not working. Took a picture on 5/12/76

← Sketch in nest location relative to identifiable landscape features, grid syste or vegetation pattern. Picture ①-1 + (2(½) frames (9 pi

Need a photo 7½ x 7½

Date	Eggs	Nestlings	Age	Comments
6/25	ϕ	1	6 weeks	
6/26	ϕ	ϕ		Eaglet not in area, as determind by aerial flight over nest.
5/11/76				2 adult golden eagles observed soaring in area. nest appears inact although there is fresh whitewash Climbed near nest + nothing was obsc
5/12/76				No adult golden eagles observed in area

ECI

Summary: C

ation Started ?

Y

Y

N

IA

Form 6-9-76

AVIAN NESTING RECORD

Species Red-tailed hawk Site Little Duck Creek

Nest No. 22 Observer P. L. Kennedy Project 83

Nest Type: a. Tree (Species) ✓ b. Cliff Sandstone-ledg

c. Ground d. Other (Explain)

Nest Exposure South Nest Size 2½' x 2½' x 7½' - stick

Height of Nest Above Ground 20 feet ± Number of Alternate Nests 0

35 foot cliff

Attach picture ~~showing relative to identifiable landscape features~~, grid system or vegetation pattern. ~~Need a photo~~ Pictures 3-4 Tri-x roll #2

Date	Eggs	Nestlings	Age	Comments
5/11/76	✓(?)			Ad. red-tailed on nest ~ in an incubating or brooding posture. Prob incubating. The other adult came to nest with food; both perched on nest for a bit. ~~The~~ one adult left & the other sat down to incubate & was rocking back & forth
5/12/76	✓			Ad. red-tailed in incubating posture
				Picture on file with ECI

044/051076

Lum 6-9-76

AVIAN NESTING RECORD

Species Unknown Site Ryan Gulch

Nest No. 33 Observer P L Kennedy Project 83

Nest Type: a. Tree (Species) b. Cliff Sandstone - ledge

c. Ground d. Other (Explain)

Nest Exposure SE Nest Size 4½' x 2½' x 3½' - stick

Height of Nest Above Ground 55 ft. Number of Alternate Nests 0

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Instamatic picture # 6

Date	Eggs	Nestlings	Age	Comments
5/11/76				Inactive medium amount of whitewash behind nest; may be active during 1975

044/051076

Barn 6-8-

AVIAN NESTING RECORD

Species [illegible] Site [illegible]

Nest No. 39 Observer [illegible] Project [illegible]

Nest Type: a. Tree (Species) _____ b. Cliff sandstone

c. Ground _____ d. Other (Explain) _____

Nest Exposure S Nest Size [illegible] - stick nest

Height of Nest Above Ground 50' Number of Alternate Nests 0?

cliff height - 50'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Instant picture #4

Date	Eggs	Nestlings	Age	Comments
[illegible]				[illegible]
				[illegible]
				[illegible]
				[illegible]
				[illegible]

044/051076

Form 6-9-76

AVIAN NESTING RECORD

Species Unknown Site Ryan Gulch

Nest No. 35 Observer P.L Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone - Stick nest on ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size 2½' x 2½' x 3' - stick nest

Height of Nest Above Ground 65' Number of Alternate Nests 0

Cliff height - 150'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Instamatic picture #8

Date	Eggs	Nestlings	Age	Comments
5/11/76				Inactive; does not appear to have been active during the past couple of years. Ravens.

044/051076

dmw 6-9-76

AVIAN NESTING RECORD

Species Great horned owl Site Big Duck Creek

Nest No. 37 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone pothole

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size cavity of unknown size

Height of Nest Above Ground 25' Number of Alternate Nests unknown - 1 possibility; nest site #40

Cliff height - 75'

+ up to 10 rock ledge features,

Attach picture grid system or vegetation pattern. Pictures 9 + 10 Tr - K #6

Date	Eggs	Nestlings	Age	Comments
5/12/76		2	4wks	Ad. GHO sitting in front of entrance to cavity with a fair amount of whitewash near cavity. It is probably an active nest but you cannot see into the nest without climbing into it. Further examination showed two nestlings sitting in front of cavity. 2 adults were observed perched in tree that adult GHO flew to after we approached the nest for a closer look

044/051076

Lucas 6-9-76

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AVIAN NESTING RECORD

Species Unknown Site Big Rock Creek

Nest No. 38 Observer P.L. Kennedy Project P3

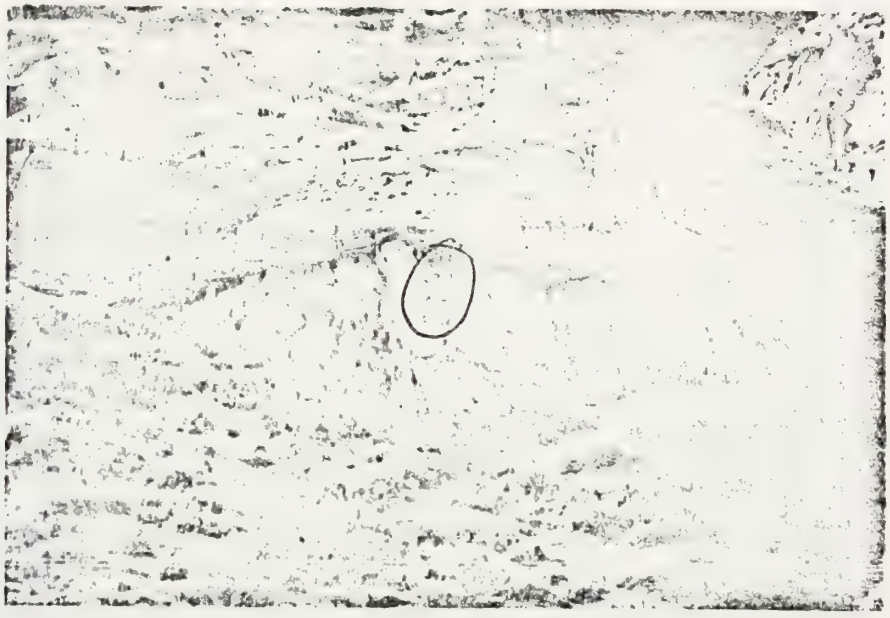
Nest Type: a. Tree (Species) _____ b. Cliff sandstone/edge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SE Nest Size 2' x 2' x 2½' - Stickmes

Height of Nest Above Ground 13' Number of Alternate Nests 0

Cliff height - 25'



This picture was taken with a 200mm lens

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Tri-x #2 Pictures #15, 16 & 17 - #17 is with 200mm

Date	Eggs	Nestlings	Age	Comments
5/12/76				Inactive lots of white wash
				behind nest, no fresh green material
				Picture on file with ECI

044/051076

bmw 6-9-76
ecology consultants, inc.

AVIAN NESTING RECORD

Species Unknown Site Big Duck Creek

Nest No. 39 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) b. Cliff

(c.) Ground stick nest on 3' ledge d. Other (Explain)

Nest Exposure SE Nest Size 4' x 3' x 1½'

Height of Nest Above Ground 3' Number of Alternate Nests 0

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture # 18 + 19 Tri-X #2

Date	Eggs	Nestlings	Age	Comments
5/12/76				Inactive; fairly intact. could have been built on low ledge or fallen off an adjacent shale outcrop. Probably inactive during 1975 also.

044/051076

Lyon 6-8-76

AVIAN NESTING RECORD

Species Unknown (An Alternate probably) Site Big Duck Creek

Nest No. 40 Observer PL Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff - sandstone

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size - ledge - stick nest 1½'x1½'x1½'

Height of Nest Above Ground 50' Number of Alternate Nests 0

cliff height - 90'

after the e!

Was unable to get with 200mm lense

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture # 20 + 21 C2 (with 200mm lense) Trix # 2

Date	Eggs	Nestlings	Age	Comments
5/12/76				Old small stick nest. Inactive. Could
				be an alternate for the
				pair of red-tailed hawks
				& great horned owls observed
				in Big Duck Creek
				Picture on file with ECT

044/051076

bmw 9-76

AVIAN NESTING RECORD

Species American kestrel (?) Site Carroll Gulch

Nest No. 11 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone

c. Ground _____ d. Other (Explain) _____

Nest Exposure South or southeast, or SW Nest Size pothole - undetermined dep

Height of Nest Above Ground ~23 Number of Alternate Nests undetermine

Cliff height - 35'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. (A-23) picture # 25 + 26 (1st two after Bruce's pic

Date	Eggs	Nestlings	Age	Comments
5/13/76				Ledge at mapped area with
				whitewash all along it. There
				are several ledges & pothole
				sights that could have been
				a kestrel nest. Inactive this
				year.
				Picture on file with FCI

044/051076

lmw 6-9-76

ecology consultants, inc.

AVIAN NESTING RECORD

Species American kestrel (possibility) Site Corral Gulch

Nest No. 12 Observer P.L. Kennedy Project 83

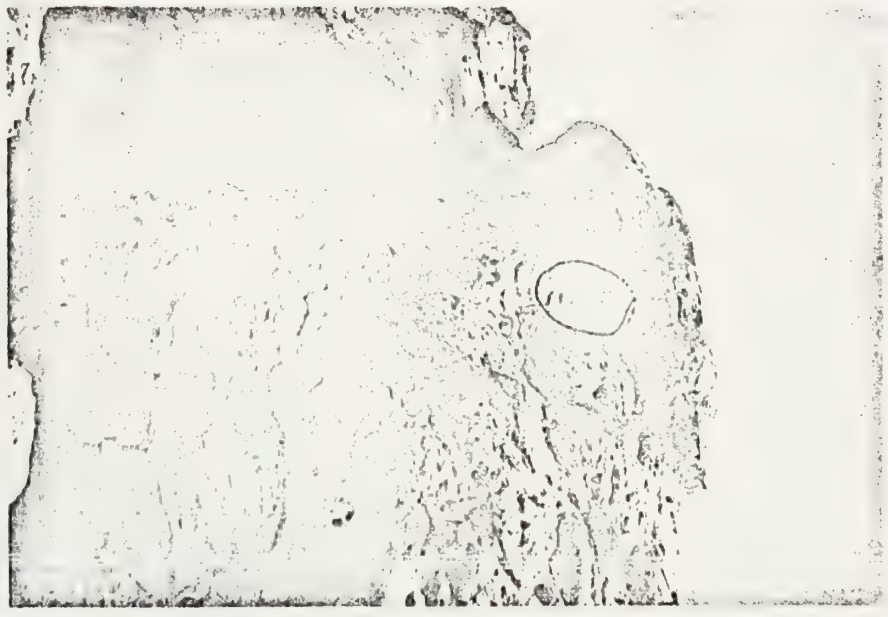
Nest Type: a. Tree (Species) _____ b. Cliff -- Sandstone

c. Ground _____ d. Other (Explain) _____

Nest Exposure SE Nest Size pothole - undetermined size

Height of Nest Above Ground 30' Number of Alternate Nests undetermined

Cliff height 35 feet



Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. pictures 27 & 28 7/1 Y-4 2

Date	Eggs	Nestlings	Age √	Comments
5/13/76				possible eyrie: small pothole with whitewash below it; might also be a perch. Inactive; (if an eyrie)
				Picture on file with ECI

044/051076

bmw 6-9-76
ecology consultants, inc.

AVIAN NESTING RECORD

Species Wakamua Site N Van Horn Gully

Nest No. 93 Observer P.L. Kennedy Project ES1

Nest Type: a. Tree (Species) _____ b. Cliff – Sandstone – pothole

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size – Stick nest – 3' x 9' x 3'

Height of Nest Above Ground 10' Number of Alternate Nests 0

Cliff height – 25'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture #'s 29 & 30 Tr. x-#12

Date	Eggs	Nestlings	Age	Comments
5/13/76				Old nest - partially green [illegible]
				[illegible] appears to be taken
				over the pack rats - Inactive
				Old whitewash on nest.
				no fresh green material
				Picture on file with ECI

044/051076

bmd 6-9-76

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AVIAN NESTING RECORD

Species Unknown Site Yellow Creek

Nest No. 99 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff sandstone

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size + substrate - stick - 1'x2'x1'

Height of Nest Above Ground 30' Number of Alternate Nests 0

Cliff height - 65'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Last pix on trix #2 - Trix #3 - 1, 2, 3

Date	Eggs	Nestlings	Age	Comments
5/13/76				Inactive; no fresh green material or whitewash. Old bones in nest, possibly grnold red-tailed nest.
				Picture on file with FCE

044/051076

Lum 6-8-76

AVIAN NESTING RECORD

Species Unknown Site Yellow Creek

Nest No. 45 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SE Nest Size stick nest - 2'x2'x 1½

Height of Nest Above Ground 35' Number of Alternate Nests 0 or #5

Cliff height - 60'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trx #3 pix's #6 & 7

Date	Eggs	Nestlings	Age	Comments
5/13/76				Inactive - old nest; with fairly fresh whitewash beneath it. No new green material
				Picture on file with ECI

044/051076

bmw 6-9-76

acentaur consultants, inc.

AVIAN NESTING RECORD

Species Unknown Site N. Van Horn Bully

Nest No. 76 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure NE Nest Size stick nest - 2½' x 2½' x 1½'

Height of Nest Above Ground 40' Number of Alternate Nests _____

Cliff height - 50'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Tri-x #3 - Pictures #8+9

Date	Eggs	Nestlings	Age	Comments
5/13/76				Inactive old nest. no fresh
				whitewash or green material
				Picture on file with ECI

044/051076

Trans 6-9-76

AVIAN NESTING RECORD

Species Unknown Site Coral Gulch

Nest No. 47 Observer R. L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff - sandstone ledge

c. Ground _____ d. Other (Explain) 2' x 3' x 1½'

Nest Exposure South Nest Size stick - L

Height of Nest Above Ground 10' Number of Alternate Nests 0

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture #11 9x10 (1st picture on a roll, blank) 1/2 - x 47-5

Date	Eggs	Nestlings	Age	Comments
5/19/76				Old nest; no fresh green material or whitewash. Inactive

044/051076

RBOSP PROGRESS REPORT 6-9-76

AVIAN NESTING RECORD

Species Unknown Site Corral Gulch

Nest No. 48 Observer P. L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff sandstone/shale-ledge

c. Ground _____ d. Other (Explain) 2'x2'x1½'

Nest Exposure South Nest Size stick 2

Height of Nest Above Ground 20' Number of Alternate Nests 0

Cliff height - 30'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Pictures # 11 & 12 tri-x #3

Date	Eggs	Nestlings	Age	Comments
5/17/76				Next to road. inactive; old nest

044/051076

RBOSP PROGRESS REPORT Rec'd 6-9-76

geology consultants, inc.

AVIAN NESTING RECORD

Species Unknown (Cliff swl hawk?) Site North Unaweep Gulch

Nest No. 99 Observer P.L. Kennedy Project 83 C

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SW Nest Size 2' x 4' x 1' - stick nest

Height of Nest Above Ground 75' Number of Alternate Nests 0

Cliff height - 90'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture #1 124 KD Tr. X-#3

Date	Eggs	Nestlings	Age	Comments
5/14/76				Tractive no trees area material Early stick work and surrounding ponderosa possibly active last year

044/051076

BLM/GJP Program Report

Lmm 6-9-76

Ecology consultants, Inc.

B.C.9.4.2.21

AVIAN NESTING RECORD

Species Unknown Site Pt. Lock State Springs Trac

Nest No. 49 Observer P.L. Kennedy Project 83

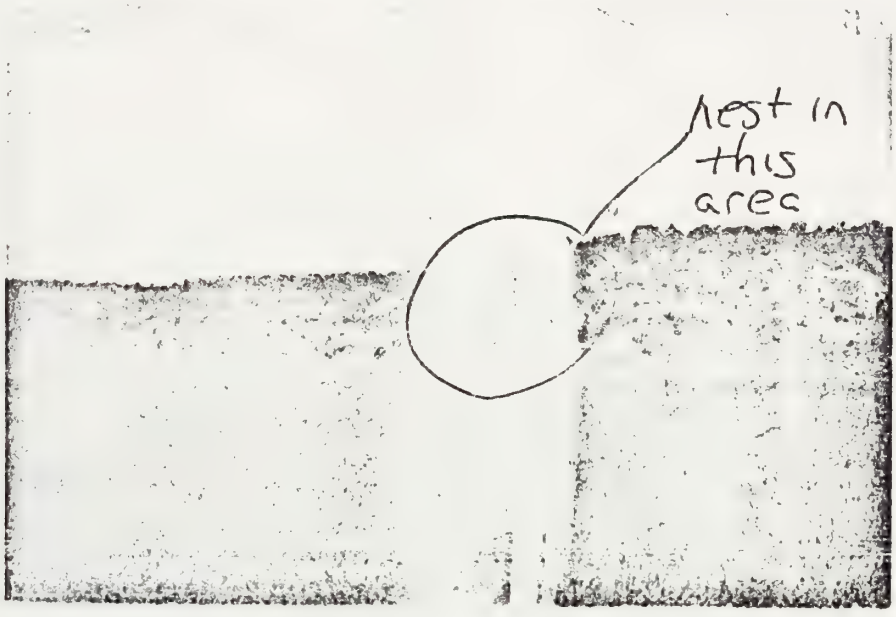
Nest Type: a. Tree (Species) _____ b. Cliff sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SW Nest Size Stick nest - 1½' x 2½' x 3'

Height of Nest Above Ground 40' Number of Alternate Nests 0

Cliff height - 50'



AUG • 19 •

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trix #5; Picture #: 1+2

Date	Eggs	Nestlings	Age	Comments
6/13/72				Inactive; observed ground squirrels + mtn bluebirds enter nest.

RBOSP PROGRESS REPORT

044/051076

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83.C.9.4.2.2.1

AVIAN NESTING RECORD

Species Unknown Site Left Fork State Springs Area

Nest No. 50 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Sandstone-ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SW Nest Size 1'x2'x1' -stick nest

Height of Nest Above Ground 40' Number of Alternate Nests 0

Cliff height - 75' Big boulders

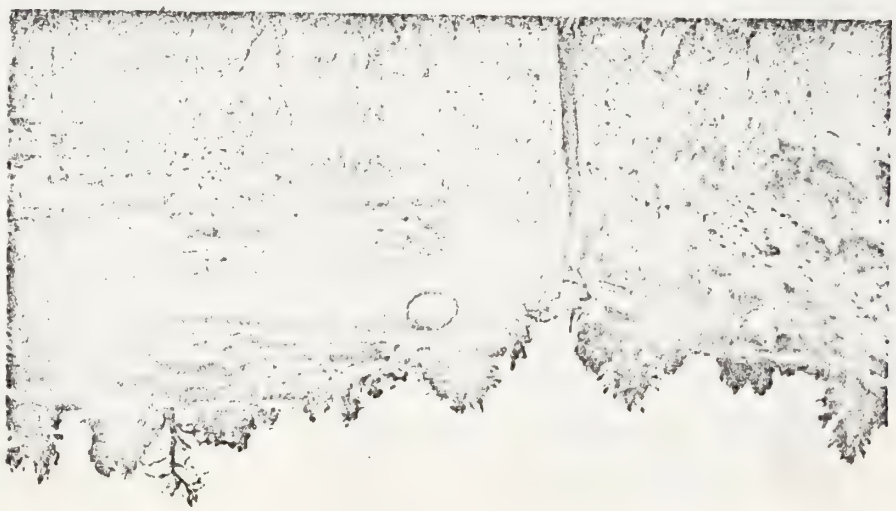
left

Attach picture or sketch of nest location showing topographic features, grid system or vegetation pattern. Trix = #5 Picture # 3+4+5

Date	Eggs	Nestlings	Age	Comments
6/13/76				Inactive;

044/051076

Lois 8-13-76



83.C.84.2.2.1

AVIAN NESTING RECORD

Species Red-tailed Hawk Site Corral Gulch

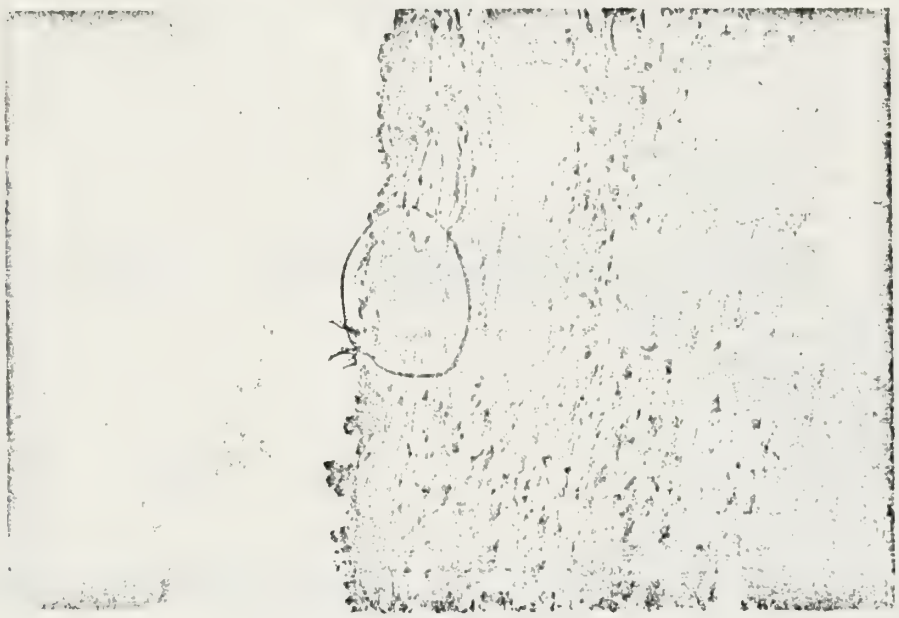
Nest No. 51 Observer P. L Kennedy Project 83

Nest Type: a. Tree (Species) Pinyon pine b. Cliff

c. Ground d. Other (Explain)

Nest Exposure Unknown Nest Size Too shattered to tell

Height of Nest Above Ground Found on ground Number of Alternate Nests ? Unknown



Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Picture 1, 2 & 3 of Tr. -x #-4

Date	Eggs	Nestlings	Age	Comments
5/19/76				This nest was active since 1973 according to W.O.T.T. It had one nestling in it during June 1973. The tree has since fallen over and the nest was on the ground below the fallen tree this year. Unknown if they retain some where else to occ
				Picture on file with ECI

044/051076

Lmw 6-8-76

83.C.9.4.2.1

AVIAN NESTING RECORD

Species Common raven Site Left Fork State Spring Draw

Nest No. 52 Observer P.L. Kennedy / Ken Baur Project 83

Nest Type: a. Tree (Species) _____ b. Cliff sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure SW Nest Size stick nest - 1'x2'x3'

Height of Nest Above Ground 35' Number of Alternate Nests ?

Cliff height - 95' maybe nest #53

AUG • 76 •

Attach picture or sketch of nest location relative to identifiable landscape features, grid system or vegetation pattern. Pix - x #3 Pix's #6 & 7

Date	Eggs	Nestlings	Age	Comments
5/7/76		5	unknown	Observed by FCI pilot who did not know how to age young ravens. He also observed both adults at nest
6/13/76				Inactive; A lot of fresh whitewash below nest and on surrounding perches Raven pellets below nest. The young have already fledged

044/051076

REOSP PROGRESS REPORT 8-13-76

83 C.9.1.2.81

AVIAN NESTING RECORD

Species Unknown Site Dry Fork

Nest No. 53 Observer R. L. Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff Shale-ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size stick nest - 1'x 2'x ½'

Height of Nest Above Ground 55' Number of Alternate Nests 0

cliff height

Attach picture or sketch, if nest location relative to identifiable landscape features, grid system or vegetation pattern. Trx #5 Picture #=8 & 9

Date	Eggs	Nestlings	Age	Comments
6/13/76				Fractive; no whitewash +
				no fresh green material around
				nest

044/051076

Lem 8-13-76

83.c.9.4.2.21

AVIAN NESTING RECORD

Species Oaknewa Site Dry Fork

Nest No. 54 Observer R.L. Kennedy Project 83

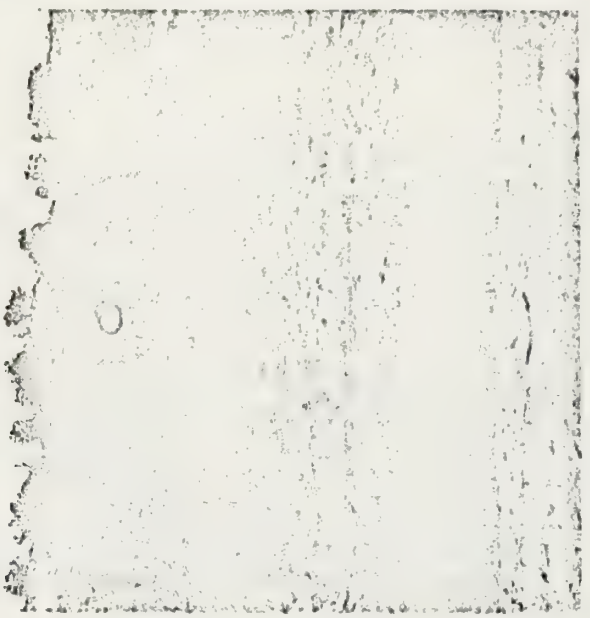
Nest Type: a. Tree (Species) ( ) b. Cliff shale - ledge

c. Ground d. Other (Explain)

Nest Exposure South East Nest Size small stick nest - 1'x2½'x½'

Height of Nest Above Ground 80' Number of Alternate Nests ? ft 53 ?

Cliff height - 115' ~~- 1/2 of cliff~~



Attach picture ... cape features, grid system or vegetation pattern. Trix #5 Picture #s 10 & 11

Date	Eggs	Nestlings	Age	Comments
6/13/76				Nonactive; no fresh green material; no whitewash

044/051076

Sum 8-13-76

83.C.9.4.2.2.1

AVIAN NESTING RE[illegible]

Species Unknown Site Landing Strip Ridge

Nest No. 55 Observer P.L Kennedy Project 83

Nest Type: a. Tree (Species) _____ b. Cliff sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure South Nest Size stick nest - 1' x 1½' x 3'

Height of Nest Above Ground 15' Number of Alternate Nests 0

Cliff height - 18'

N ↑

rock

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Tri-x #5 Picture #12 & 13

Date	Eggs	Nestlings	Age	Comments
6/15/76				Inactive; some whitewash below nest but the nest appears fairly old.

044/051076

Form 8-13-76

83.C.9.4.2.2.1

AVIAN NESTING RECORD

Species Golden eagle Site Cathedral Bluffs

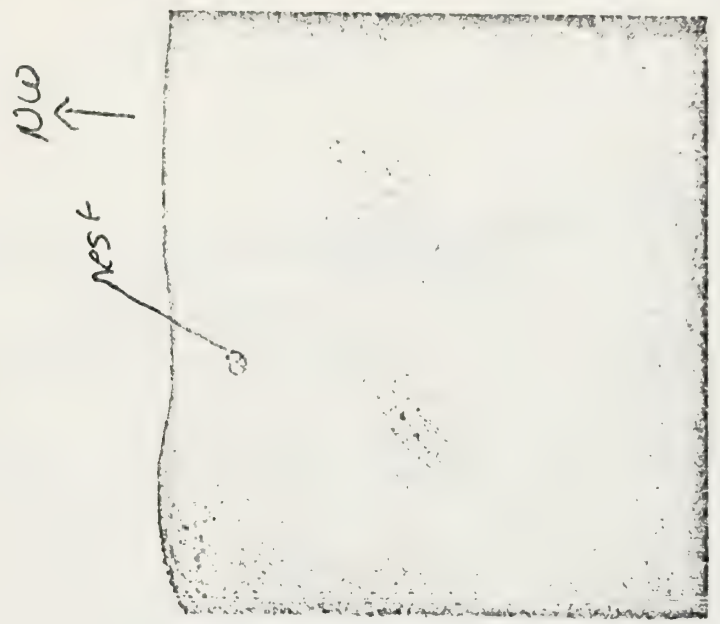
Nest No. 36 Observer P.L. Kennedy Project 83

Nest Type: a. Tree (Species) b. Cliff shale-ledge

c. Ground d. Other (Explain)

Nest Exposure East Nest Size Stick nest – 1' x 3' x 1½'

Height of Nest Above Ground 50' Number of Alternate Nests 2? (1 or 10?)



AUG • 76 •

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Tri-x # 3 Pix's # 14 & 15

Date	Eggs	Nestlings	Age	Comments
6/16/76		2	9-10 days	Both nestlings standing in nest exercising their wings. The nest is probably one of three alternates used by the two pairs of golden eagles nesting on the Bluffs

044/051076

[illegible] Image 8-13-76

AVIAN NESTING BOARD

83.C.9.4.2.2.1

Species Unknown Site Box Elder Gulch

Nest No. 57 Observer P.L. Kennedy Project 83

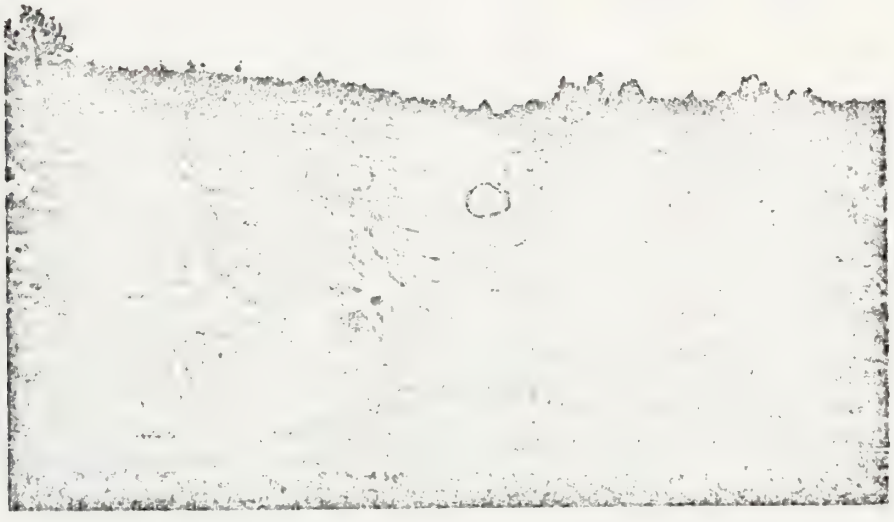
Nest Type: a. Tree (Species) _____ b. Cliff Shale - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure north Nest Size stick nest - 1½ x 2½ x 2

Height of Nest Above Ground 30' Number of Alternate Nests 0

Cliff height - 60'



Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Tri-x #5 Picture 16 & 17

Date	Eggs	Nestlings	Age	Comments
6/16/76				Inactive: No fresh whitewash or fresh green material around nest

044/051076

bm 8-13-76

AVIAN NESTING RECORD

Species Unknown Site Box Elder Gulch

Nest No. 38 Observer P. Kennedy Project 53

Nest Type: a. Tree (Species) b. Cliff shale-ledge

c. Ground d. Other (Explain)

Nest Exposure SE Nest Size 1' x 2' x 1½' - stick nest

Height of Nest Above Ground 15' Number of Alternate Nests 1?

Cliff height - 22' maybe #36

Attach picture or sketch of nest location relative to identifiable landscape features, grid system or vegetation pattern. Tr-x #5 Picture # 18 & 19

Date	Eggs	Nestlings	Age	Comments
6/16/76				Fractured

044/051076

Arm 8-13-76

83.C.9.4.2.1

AVIAN NESTING RECORD

Species Unknown Site Ryan Gulch

Nest No. 59 Observer P. Kennedy Project 83

Nest Type: a. Tree (Species) b. Cliff sandstone-ledge

c. Ground d. Other (Explain)

Nest Exposure SE Nest Size 1' x 2½' x 1½' - stickmost

Height of Nest Above Ground 20' Number of Alternate Nests 0

Cliff height 30'

1 of 1

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trix II 5 Picture # 28429

Date	Eggs	Nestlings	Age	Comments
6/25/76				Inactive. Lots of whitewash around nest. The nest could have been active earlier in season

044/051076

Sum 8-13-76

83.C.9.4.2.1

AVIAN NESTING RECORD

Species Unknown Site Ryan Gulch

Nest No. 160 Observer K.L. Kennedy Project ES

Nest Type: a. Tree (Species) _____ b. Cliff sandstone - ledge

c. Ground _____ d. Other (Explain) _____

Nest Exposure east Nest Size stick nest - 1'x1½'x1½'

Height of Nest Above Ground 12' Number of Alternate Nests 0

Cliff height - 22'

Attach picture or sketch in nest location relative to identifiable landscape features, grid system or vegetation pattern. Trix #5 Roost # 304-31

Date	Eggs	Nestlings	Age	Comments
6/25/76				Inactive; an old stick nest
				No fresh whitewash in area

044/051076

Lmw 8-13-76

2.3.8 Reptiles and Amphibians

2.3.8.3 Results

Five permanent and five non-permanent reptile transects were sampled during June 24-29, 1976 and during August 10-12, 1976. The results of these two sampling trips are summarized in Table 2.3-68.

Table 2.3-68 shows that lizards were more numerous in the more open vegetation types such as south slope pinyon-juniper and nearly bare, rocky, south slopes. This reflects a typical behavior pattern of lizards in that they seem to prefer areas with many basking locations (Stebbins, 1954). In addition to lacking adequate basking sites, the denser vegetation types (e.g., mixed brush, bottomland sagebrush, aspen) also have severely restricted observer visibility. It is likely that the former phenomenon is more important in accounting for low sampling success in the denser vegetation types, however.

Four reptile species were recorded during each of the two sampling trips. Exposed rocky slopes with sparse pinyon, juniper, and sagebrush displayed the greatest diversity and numbers of lizards. An especially large number (35) of Urosaurus ornatus was observed in June along a rocky south slope traversed by transect #18. During both sampling periods, temperatures were in the mid to lower 20's C (slightly warmer in August), and cloud cover was variable but generally less than 50 percent. Winds were less than 10 mph. These conditions suggest no weather interference with herpetofauna activity during the sampling period.

Amphibian breeding site visits were conducted at ponds in Corral Gulch, Stake Springs Draw, and Duck Creek on June 28, 1976 and in Corral Gulch and Stake Springs ponds only on June 29, 1976. Pseudacris triseriata and Scaphiopus intermontanus were heard calling on the first night but only P. triseriata was heard calling on the second night. As discussed above for reptile sampling, the weather was seasonable, with essentially no cloud cover and cool evening temperatures.

LITERATURE CITED

Stebbins, R.C. 1954. Amphibians and reptiles of western North America. McGraw Hill Book Company. New York, New York. 536 pages.

Table 2.3-68. Summary of reptile data collected on permanent and non-permanent transects in June and August, 1976 for RBOSP

Transect	Type	Vegetation	Species Observed	Number of Individuals			Age Class	
				Male	Female	Unknown	Adult	Juvenile
			JUNE 1976					
1	P[1/]	Greasewood-sagebrush	Sceloporus graciosus	0	2	0	2	0
2	P	South Slope Pinyon-Juniper	Sceloporus graciosus	2	5	1	7	1
			Phrynosoma douglassi	0	1	0	1	0
3	P	North Slope Pinyon-Juniper	Sceloporus graciosus	1	2	1	2	2
4	P	Sagebrush	None	0	0	0	0	0
5	P	Mixed Brush	None	0	0	0	0	0
16	NP[2/]	Shadscale	Sceloporus graciosus	2	2	0	4	0
17	NP	Riparian	None	0	0	0	0	0
18	NP	Rocky South Slope	Urosaurus ornatus	7	5	23	35	0
			Sceloporus graciosus	5	2	2	8	1
			Sceloporus undulatus	0	2	0	2	0
19	NP	Upland Meadow	None	0	0	0	0	0
20	NP	Aspen	None	0	0	0	0	0
			AUGUST 1976					
1	P	Greasewood-Sagebrush	None	0	0	0	0	0
2	P	South Slope Pinyon-Juniper	Sceloporus graciosus	1	2	2	5	0
3	P	North Slope Pinyon-Juniper	Sceloporus graciosus	1	3	0	2	2
4	P	Sagebrush	Sceloporus graciosus	1	0	0	1	0
5	P	Mixed Brush	None	0	0	0	0	0
21	NP	Pinyon-Juniper (Ridgetop)	None	0	0	0	0	0

Table 2.3-68. (Continued)

Transect	Type	Vegetation	Species Observed	Number of Individuals			Age Class	
				Male	Female	Unknown	Adult	Juvenile
22	NP	Douglas Fir	None	0	0	0	0	0
23	NP	South Slope Pinyon-Juniper	Sceloporus graciosus	0	2	4	4	2
24	NP	Sagebrush (Bottom)	None	0	0	0	0	0
25	NP	Rocky Cliffs	Sceloporus graciosus	1	2	1	4	0
			Urosaurus ornatus	4	2	1	7	0
			Sceloporus undulatus	0	2	4	6	0

1/ P = Permanent Transect

2/ NP = Non-permanent Transect

2.3.8.5 Reptiles and Amphibians Raw Data

2.3.8.5 Reptiles and Amphibians Raw Data

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect # NP Vegetation Type Grassland - Sage Location S30 T1S R98W

Date 6/29/76 Time, Ground Temp. at Start 1300 28° Time, Ground Temp. at End 1345 28°

Cloud Cover (%) 10 Wind Speed 0 Observer(s) Turner Barry Project 83

Date 7-1-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	0 0	rock pile	♀	A	—
2 graciosus	2	rock pile	♀	A	—

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*Reproductive condition, broken tail, etc.

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(P)

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83C 10.2.2

Transect # D Vegetation Type SOUTH P-J Location S34 T15 R26W

Date 6/29/86 Time, Ground Temp. at Start 1430 23° Time, Ground Temp. at End 1530 28°

Cloud Cover (%) 0 Wind Speed 2 5 Observer(s) Turner / Sinz Project 83

bmp

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	3m	on grd	F	A	—
S. graciosus	3m	on grd	F	A	—
S. grac.	3m	on grd	?	J	—
S. grac	3m	on grd	M?	A	—
S. grac	5m	on grd	F	A	—
S grac	3m	on grd	M?	A	—
S. grac	3m	on grd	F	A	—
S. grac	3m	on grd	F?	A	—

*Reproductive condition, broken tail, etc.

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HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect # C (P) Vegetation Type North P-J Location S33 T15 R9W

Date 6/29/76 Time, Ground Temp. at Start 1145 23°C Time, Ground Temp. at End [illegible]

Cloud Cover (%) 0 Wind Speed 15 Observer(s) [illegible] Project 83

bm 7-1

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Phrynosoma douglassi	3m	on grid beside ant hill	F?	A	specimen
Sceloporus graciosus	3m	on grid	M	A	—
S. graciosus	3m	on grid	F	J	—
S. graciosus	3m	on grid	?	J	—
S. graciosus	3m	on grid - ant hill	F	A	w/ eggs 0.J

*Reproductive condition, broken tail, etc.

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(P)

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.a.2

Transect # D Vegetation Type SAGEBRUSH Location SB T25 R44W

Date 6/24/76 Time, Ground Temp. at Start 0900 14°C Time, Ground Temp. at End 0930 14°C

Cloud Cover (%) 0 Wind Speed <5 Observer(s) Turner/SAWS Project 83

burn ?

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
NONE					

*Reproductive condition, broken tail, etc.

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HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect # 5 (6) Vegetation Type Wash Bank Location S16 T2S R9W

Date 6/24 Time, Ground Temp. at Start 1345 25 Time, Ground Temp. at End 1415 25°C

Cloud Cover (%) 0 Wind Speed 15 Observer(s) Turner/Sang Project 33

June 7-L-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
NONE	—				

RDCSP PROGRESS REPORT

*Reproductive condition, broken tail, etc.

(NP)

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83C.10.2.2

Transect # 11 Vegetation Type SHADSCALE (Zone b... P-J ...) ...ation SB T2S R6GW

Date 6/21/76 Time, Ground Temp. at Start 1000 20°C Time, Ground Temp. at End 1130 22°C

Cloud Cover (%) 0 Wind Speed <5 Observer(s) Turner/Sauer Project 93

from 7-1-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	3m	under rock/slab	M	A	tail missing
S. graciosus	5m	on grd next to log	F	A	" " "
S. graciosus	5m	under ledge	F	A	w/ eggs
S. graciosus	3m	in brush	M	A	—

*Reproductive condition, broken tail, etc.

PROGRESS REPORT

(NP)

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83C.10.2.2

Transect # 12 Vegetation Type Riparian Location S6 T2S R9W

Date 6/24/71 Time, Ground Temp. at Start 1415 25 Time, Ground Temp. at End 1430 27

Cloud Cover (%) 0 Wind Speed <5 Observer(s) Thomas/Gray Project BJ

Turn 7-1-71

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
NONE					

*Reproductive condition, broken tail, etc.

RDS [illegible] FIELD REPORT

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Page 1 of 2 (NP) HERPETOFAUNA TRANSECT FIELD DATA SHEET BLM.10.2.2

Transect # 13 Vegetation Type rocky - south slope Location S30 T1S R28W

Date 6/24/76 Time, Ground Temp. at Start 1515 22° Time, Ground Temp. at End 1535 22°

Cloud Cover (%) 5 Wind Speed < 5 Observer(s) Turner / Sorg Project ???

June 7-1-

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Uvasaurus ornatus	0	rocky cliff	M	A	
U. ornatus	1	" "	U	A	
U. ornatus	2	" "	U	A	
U. ornatus	4	" "	U	A	
U. ornatus	2	" "	U	A	
Sceloporus undulatus	1	" "	F	A	voucher
U. ornatus	0	" "	U	A	
U. ornatus	1	" "	U	A	
U. ornatus	0	" "	U	A	
U. ornatus	1	" "	M	A	
U. ornatus	5	" "	F	A	
U. ornatus	4	" "	U	A	
U. ornatus	0	" "	U	A	
U. ornatus	0	" "	M	A	
U. ornatus	1	" "	U	A	
U. ornatus	1	" "	U	A	
Sceloporus graciosus	3	" "	M	A	
S. graciosus	2	" "	U	A	
U. ornatus	2	" "	U	A	
S. graciosus	1	" "	M	A	
S. graciosus	2	" "	M	A	
U. ornatus	2	" "	U	A	
U. ornatus	1	" "	F	A	
U. ornatus	3	" "	U	A	

*Reproductive condition, broken tail, etc.

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Page 2 of 2

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.02

Transect # 13 Vegetation Type rock-south slope Location SEC 1st Steel

Date _____ Time, Ground Temp. at Start _____ Time, Ground Temp. at End _____

Cloud Cover (%) _____ Wind Speed _____ Observer(s) _____ Project _____

time 7-1-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
U. ornatus	3	rocks	F	A	
U. ornatus	2	tree	M	A	in tree
U. ornatus	5	"	M	A	
U. ornatus	3	"	M	A	
S. graciosus	1	on ground	F	A	
S. undulatus	3	on ground	F	A	
U. ornatus	1	on rocks	F	A	
U. ornatus	0	" "	F	A	
U. ornatus	0	" "	M	A	
S. graciosus	1	" "	F	A	
U. ornatus	1	" "	U	A	
U. ornatus	0	" "	U	A	
U. ornatus	1	" "	U	A	
U. ornatus	0	" "	U	A	
U. ornatus	1	" "	U	A	
U. ornatus	2	" "	U	A	
S. graciosus	1	on ground	M	A	
U. ornatus	0	on rocks	U	A	
S. graciosus	3	on ground	M	A	
U. ornatus	2	on rocks	U	A	
U. ornatus	1	on rocks	U	A	
S. graciosus	2	on ground	U	J	

*Reproductive condition, broken tail, etc.

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(NP)

HERPETOFAUNA TRANSECT FIELD D[illegible] SHEET B3.C.10.2.2

Transect # 14 Vegetation Type Upland Pressure Location S34 T2S R10DW

Date 6/26/76 Time, Ground Temp. at Start 330 28 Time, Ground Temp. at End 415 28

Cloud Cover (%) —0 Wind Speed 25 Observer(s) Turner Sorg Project 83

June 7-1-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
NONE —					

*Reproductive condition, broken tail, etc.

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(NP) HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect # 15 Vegetation Type Aspen Location S15 T25 R100W

Date 6/27/76 Time, Ground Temp. at Start 300 29 Time, Ground Temp. at End 415 29

Cloud Cover (%) 5 Wind Speed <5 Observer(s) Tuan Sun Project 53

from 7-1-76

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
NONE					

*Reproductive condition, broken tail, etc.

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AMPHIBIAN COLLECTION SH

bm
7-1-76

Project #: 83

23 C. 10. 1 2

Date	STOP No.	Species	Sex	Age Class	Capture Location	Habitat Description	Collector	Additional Notes *
7/29	1	Pseudacris triseriata	♂	A	Corral wallow	pond	Turner Gam	—
	2	NONE			Stock spring	pond	0	—

* Reproductive condition, stomach contents, tail loss, etc.

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AMPHIBIAN COLLECTION SHEET

Project #: 83

83.C.10.1.2
Lum 7-1-76

Dat	STOP No.	Species	Sex	Age Class	Capture Location	Habitat Description	Collector	Additional Notes *
6/28	1	NONE	-	-	Duck Species	pond	—	—
	2	Pseudacris triseriata	♂	A	Corral Gulch	pond	Turner Surg	—
	3	Scaphiopus intermontanus	♂	A	Stalker Spg	pond	Turner Surg	—
	4	None			Stalker Spg	pond		

* Reproductive condition, stomach contents, tail loss, etc.

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HERPETOFAUNA TRANSECT FIELD DA[illegible] SHEET 83.C.10.2.2

Transect # 1P Vegetation Type Grassland / Sage Location R99W, T1S, S25; R98W, T1S, S3

Date 10 Aug. 1976 Time, Ground Temp. at Start 1110 (25°C) Time, Ground Temp. at End 1143 (25°C)

Cloud Cover (%) 25 Wind Speed 2-6 mph Observer(s) Sanz, King Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
No Observations					

*Reproductive condition, broken tail, etc.

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83 C.10.2.2

HERPETOFAUNA TRANSECT FIELD DATA SHEET

Transect # 2P Vegetation Type P.J. (south slope) Location 8S29W, T 15, S 25 [illegible]

Date 10 Aug Time, Ground Temp. at Start 1200 (33°) Time, Ground Temp. at End 1252 (37°C)

Cloud Cover (%) 10 Wind Speed 0-3 mph Observer(s) Sapp / Kling Project [illegible]

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	1 ft.	on ground	M	A	
S. graciosus	0	" "	U	A	
S. graciosus	0	under shrub	F	A	
S. graciosus	0	on ground	U	A	
S. graciosus	4	under deadfall	F	A	

*Reproductive condition, broken tail, etc.

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HERPETOFAUNA TRANSECT FIELD DATA SHEET R-98W, T2S S4

Transect # 3P Vegetation Type P.J. (north slope) Location R 99w, T 1S, S 33 & 34 (m mc

Date 11 Aug 1976 Time, Ground Temp. at Start 1236 (23°) Time, Ground Temp. at End 1340 (23°

Cloud Cover (%) 30 Wind Speed 0-3 mph Observer(s) Sauer/Kling Project [illegible]

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	1 ft.	deadfall	F	J	
S. graciosus	4	ground near deadfall	F	A	Little color
S. graciosus	2	beneath sage	M	A	Very colorful
S. graciosus	0	dead fall	F.	J	

*Reproductive condition, broken tail, etc.

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076/060175

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HERPETOFAUNA TRANSECT FIELD DATA SHEET

Transect # 4P Vegetation Type Sagebrush Location R99W, T25S Sec 9

Date 11 Aug. 1976 Time, Ground Temp. at Start 945 (21°C) Time, Ground Temp. at End 1023 (21°C)

Cloud Cover (%) 25 Wind Speed 0-1 m/h Observer(s) Sam / Kling Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	0 ft.	on ground	M	A	

*Reproductive condition, broken tail, etc.

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HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect # 5P Vegetation Type Mixed Brush (north) Location R9W, T26 S.6,

Date 10 Aug 76 Time, Ground Temp. at Start 1355 (25°C) Time, Ground Temp. at End 1435 (25°C)

Cloud Cover (%) 50 Wind Speed 2-6 mph Observer(s) Sarr, Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
No Observations					

*Reproductive condition, broken tail, etc.

Sum 8-20-76

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect #21NP Vegetation Type P.J. ridgetop Location R 9W T 25 S. 18

Date 10 Aug. 76 Time, Ground Temp. at Start 0950 (23°C) Time, Ground Temp. at End 1050 (27°C)

Cloud Cover (%) 30 Wind Speed 0-5 mph Observer(s) Sanz, King Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
No observations					

*Reproductive condition, broken tail, etc.

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Aug 8-20-76

076/060175

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.22

Transect #22 NP Vegetation Type Douglas-fir Location R 10E W, T 15 S, S 21 E

Date 10 Aug '76 Time, Ground Temp. at Start 1535 (23°C) Time, Ground Temp. at End 1670 (23°C)

Cloud Cover (%) 60 Wind Speed 0-10 mph Observer(s) Gray / Kling Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
No Observations					

*Reproductive condition, broken tail, etc.

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Sum 8-20-76

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HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2

Transect #23NP Vegetation Type P.J. (south slope) Location R9W, T2S, S 1

Date 11 Aug. 83 Time, Ground Temp. at Start 1050 (23C) Time, Ground Temp. at End 1140 (23C)

Cloud Cover (%) 10 Wind Speed 0-2 mph Observer(s) Seng / Kling Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporous graciosus	1 ft.	on ground	U	A	
S. graciosus	0	" "	U	A	
S. graciosus	3	" "	F	J	
S. graciosus	2	" "	F	J	
S. graciosus	1	under shrub	U	A	big one
S. graciosus	5	on ground	U	A	

*Reproductive condition, broken tail, etc.

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Sum 8-20-76

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HERPETOFAUNA TRANSECT ... D DATA SHEET 83.C.10.2.2

Transect #24NP Vegetation Type Sagebrush bottom Location R99W, T25, S 22

Date 12 Aug. 76 Time, Ground Temp. at Start 1050 (20°C) Time, Ground Temp. at End 1040 (20°C)

Cloud Cover (%) 0 Wind Speed 0-1mph Observer(s) Sunz/Kling Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations *
No Observations					

*Reproductive condition, broken tail, etc.

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Sum 8-20-76

076/060175

HERPETOFAUNA TRANSECT FIELD DATA SHEET 83.C.10.2.2-

Transect #25NP Vegetation Type rocky cliffs Location R 98 W, T 25, S 10

Date 12 Aug '76 Time, Ground Temp. at Start 1122 (23°C) Time, Ground Temp. at End 1242 (23°C)

Cloud Cover (%) 0 Wind Speed 0-1 mph Observer(s) Sam / Kim Project 83

Species	Approximate Perpendicular Distance From Transect	Microhabitat Type	Sex	Age Class	Additional Observations*
Sceloporus graciosus	0 ft.	on ground	F	A	
Urosaurus ornatus	3	on rock	M	A	
S. graciosus	0	under rock	M	A	
S. graciosus	5	on ground	U	A	
S. undulatus	2	on ground	U	A	
U. ornatus	2	on rock	F	A	
U. ornatus	0	on rock	M	A	
S. undulatus	1	under shrub	F	A	very large 6½"
U. ornatus	4	on rock	F	A	
S. undulatus	1	on log	U	A	
S. graciosus	3	on ground	F	A	
U. ornatus	5	on rock	M	A	
S. undulatus	3	on rock	U	A	
S. undulatus	0	under rock	U	A	
U. ornatus	1	on rock	U	A	
U. ornatus	3	on rock	M	A	
S. undulatus	2	on rock	F	A	7"

*Reproductive condition, broken tail, etc.

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Sam 8-20-76

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2.3.9 Terrestrial Invertebrates

2.3.9.3 Results

Samples taken during May, 1976 were identified and enumerated during the period June through August 31, 1976. Identification and enumeration of samples taken in July, 1976 are in progress.

May, 1976 results from greasewood-sagebrush (Site 1) show a substantial increase in total invertebrate captures in both the surface and subsurface dwelling invertebrate groups, relative to samples taken in May 1975 (Tables 3-7-261, 3-7-267, and 3-7-269 in the Second Annual Report, RBOSP, 1976 and Tables 2.3-69, 2.3-70 and 2.3-71). The numerically predominant groups also changed from harvestmen (Phalangida) and several spider (Araneida) and beetle (Coleoptera) families in May, 1975 to mites (Acari), springtails (Collembola) and booklice (Psocoptera) in May, 1976.

Herbaceous sweep samples from the vegetation in May, 1975 and May, 1976 yielded comparable results as did the more specific aerial sweep and beating samples of sagebrush for both years. Total captures of invertebrates vacuumed from rabbitbrush were greater by a factor of twenty in May, 1976 than for May, 1975 yielding an average estimated density of greater than 15,000 invertebrates per cubic meter of vegetation for May, 1976. The numerically dominant group in both years was thrips (Thysanoptera) (Table 3-7-304 in the Second Annual Report, RBOSP, 1976, and Table 2.3-72).

Sampling of active flying insects indicated that captures in May, 1975 were ten times greater than in May, 1976. There was an overall decrease in captures for all major families in May, 1976 with the largest decrease in the number of non-biting midges (Chironomidae). Changes in physical conditions such as the availability of free standing water from May, 1975 to May, 1976 may partially explain the decline in numbers since this family has aquatic larvae (Table 3-7-296 in the Second Annual Report, RBOSP, 1976 and Table 2.3-73).

At the pinyon-juniper, south slope site (Site 2), litter and ground dwelling invertebrate captures were substantially higher in May, 1976 than in May, 1975 although the numerically predominant groups, springtails (Collembola) and mites (Acari) were essentially the same both years (Tables 3-7-312, 3-7-317, and 3-7-269 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-74, 2.3-70, and 2.3-71).

A substantial decrease in total captures was recorded for active flying insects captured in Malaise traps in 1976 relative to 1975 (Table 3-7-296 in Second Annual Report, RBOSP, 1976, and Table 2.3-73). A drop in totals for most groups and almost complete absence of Chironomidae accounted for much of the reduction in total numbers of flying insects captured.

Table 2.3-69. Relative abundance and population density estimates for ground dwelling invertebrates collected by pitfall traps at site 1, greasewood-sagebrush, during May 1976 for RBOSP *

Taxon	# collected	Relative abundance **	Density (#/M2)
THYSANURA	1	0.21	0.01
COLLEMBOLA	108	22.27	1.14
ORTHOPTERA	1	0.21	0.01
PSOCOPTERA	16	3.30	***
HEMIPTERA	4	0.82	***
HOMOPTERA	17	3.51	***
COLEOPTERA	46	9.48	***
LEPIDOPTERA	10	2.06	***
DIPTERA	14	2.89	2.33
HYMENOPTERA	55	11.34	***
ARANEIDA	54	11.13	***
PHALANGIDA	8	1.65	***
ACARI	150	30.93	***
GEOPHILOMORPHA	1	0.21	0.01

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 1/# collected all taxa, site 1) X 100
*** assumptions of density estimation method not met

Table 2.3-70. Average number of invertebrates collected from litter by the d-vac method at each sampling site during May 1976 for RBOSP

Site	Vegetation type	# of Samples	Avg. # of inverts. per kilogram litter	Variance	Std. error
1	greasewood-sagebrush	5	421.3	58591.4	108.3
2	pinyon-juniper (south slope)	5	1460.2	1232939.1	496.6
3	pinyon-juniper (north slope)	5	41.2	2499.2	22.4
4	sagebrush	5	254.2	45543.5	95.4
5	mixed brush	5	2015.3	10711440.3	1463.7

Table 2.3-71. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during May 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
THYSANURA											
Unknown		0	0	0	0	0	0	0	0	1	1
DIPLURA											
Unknown		1	23	1	1	1	17	0	0	1	4
COLLEMBOLA											
Isotomidae	elongate-bodied springtails	1	1	2	2771	1	62	2	60	2	2125
Entomobryidae	elongate-bodied springtails	2	16	1	17	2	13	1	2	1	79
Sminthuridae	globular springtails	1	5	1	1	0	0	0	0	0	0
PSOCOPTERA											
Unknown		1	69	1	3	1	1	0	0	1	1
THYSANOPTERA											
Unknown		1	7	1	19	1	6	1	2	0	0
HEMIPTERA											
Unknown		1	2	0	0	1	1	1	3	2	5
HOMOPTERA											
Unknown		1	8	0	0	0	0	0	0	1	5
Coccoidea	scales	0	0	1	47	0	0	0	0	0	0
COLEOPTERA											
Unknown		1	5	0	0	0	0	0	0	1	12
Carabidae	ground beetles	1	5	1	3	1	2	2	4	1	1
Staphylinidae	rove beetles	2	5	1	3	0	0	1	1	2	8
Cleridae	checkered beetles	0	0	0	0	0	0	1	1	0	0
Coccinellidae	ladybird beetles	1	2	0	0	0	0	0	0	0	0
Tenebrionidae	darkling beetles	0	0	0	0	0	0	1	1	0	0
Scarabaeidae	scarab beetles	0	0	0	0	0	0	1	2	0	0
Chrysomelidae	leaf beetles	1	1	0	0	0	0	0	0	1	1
Curculionidae	snout beetles	1	1	0	0	0	0	0	0	2	3
LEPIDOPTERA											
Unknown		0	0	0	0	1	5	1	4	1	1
Noctuidae	cutworm moths	1	2	1	2	0	0	1	4	0	0
DIPTERA											
Unknown		1	6	1	12	1	8	0	0	3	3
Therevidae	stiletto flies	0	0	1	1	0	0	0	0	0	0
HYMENOPTERA											
Unknown		1	1	0	0	0	0	1	3	1	3

Table 2.3-71. (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Encyrtidae	encyrtid wasps	1	1	0	0	0	0	0	0	0	0
Ceraphronidae	ceraphronid wasps	0	0	0	0	0	0	0	0	1	4
Dryinidae	dryinid wasps	0	0	0	0	0	0	0	0	1	4
Formicidae	ants	5	27	2	6	2	18	5	46	2	27
CHELONETHIDA	pseudoscorpions										
Unknown		0	0	1	2	1	8	1	1	1	10
ARANEIDA	spiders										
Unknown		0	0	1	5	1	1	0	0	0	0
Dictynidae	dictynid spiders	1	3	0	0	1	5	1	3	0	0
Gnaphosidae	hunting spiders	1	1	0	0	0	0	0	0	1	1
ACARI	ticks and mites										
Unknown		1	199	1	600	1	15	1	8	1	994
LITHOBIOMORPHA											
Unknown		1	2	1	1	0	0	0	0	0	0
GEOPHILOMORPHA											
Unknown		1	2	0	0	1	1	1	3	1	11
	TOTALS	30	394	20	3869	18	176	23	148	29	3303

Table 2.3-72. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by trap D-vac sampling at all sites during May 1976 for RBOSP

ORDER / Family	Common name	Site 1 A	Site 1 B	Site 2 A	Site 2 B	Site 3 A	Site 3 B	Site 4 A	Site 4 B	Site 5A A	Site 5A B	Site 5B A	Site 5B B
COLLEMBOLA													
Isotomidae	elongate-bodied springtails	0	0	1	1	0	0	1	0	1	4	0	0
Entomobryidae	elongate-bodied springtails	0	0	1	6	0	0	0	0	0	0	0	0
Sminthuridae	globular springtails	0	0	0	0	0	0	0	0	1	1	0	0
PSOCOPTERA													
Psocidae	psocids	1	3	0	0	0	0	0	0	0	0	0	0
THYSANOPTERA													
Unknown		2	878	1	1	1	5	1	24	2	21	1	1
HEMIPTERA													
Pentatomidae	stink bugs	1	1	1	1	0	0	0	0	0	0	0	0
HOMOPTERA													
Cicadellidae	leafhoppers	3	12	0	0	3	4	1	6	1	1	2	7
Delphacidae	delphacid planthoppers	0	0	0	0	0	0	1	1	0	0	0	0
Psyllidae	psyllids	0	0	0	0	0	0	1	2	1	13	0	0
Aphididae	aphids	0	0	0	0	0	0	0	0	1	1	0	0
Coccoidea	scales	0	0	2	2	2	7	1	1	0	0	0	0
COLEOPTERA													
Unknown		0	0	0	0	0	0	1	3	0	0	0	0
Elateridae	click beetles	0	0	1	1	0	0	1	1	1	1	0	0
Coccinellidae	ladybird beetles	1	1	0	0	0	0	1	1	0	0	0	0
Chrysomelidae	leaf beetles	1	1	0	0	1	3	0	0	0	0	0	0
Curculionidae	snout beetles	1	12	2	11	1	11	2	7	0	0	0	0
NEUROPTERA													
Chrysopidae	green lacewings	0	0	0	0	1	0	0	0	0	0	0	0
LEPIDOPTERA													
Unknown		0	0	2	6	2	2	1	2	1	2	0	0
Noctuidae	cutworm moths	0	0	0	0	0	0	0	0	1	1	0	0
Geometridae	geometer moths	0	0	0	0	0	0	0	0	1	2	1	2
DIPTERA													
Chironomidae	midges	0	0	0	0	0	0	0	0	0	0	1	4
Sciaridae	dark-winged fungus gnats	0	0	1	2	0	0	0	0	1	1	1	2
Phoridae	humpbacked flies	1	1	0	0	0	0	0	0	0	0	0	0
HYMENOPTERA													
Braconidae	braconid wasps	0	0	1	1	0	0	0	0	0	0	0	0

Table 2.3-72. (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5A A	 B	Site 5B A	 B
Mymaridae	fairyflies	1	1	1	1	0	0	0	0	0	0	0	0
Eulophidae	eulophid wasps	0	0	0	0	1	1	1	2	0	0	1	1
Pteromalidae	pteromalid wasps	0	0	0	0	0	0	1	1	0	0	0	0
Platygasteridae	platygasterid wasps	2	6	0	0	1	1	0	0	2	2	1	1
Formicidae	ants	0	0	2	1	1	1	4	17	1	4	4	17
Andrenidae	andrenid bees	5	11	0	0	0	0	0	0	0	0	0	0
CHELONETHIDA	pseudoscorpions												
Unknown		0	0	0	0	0	0	0	0	1	1	0	0
ARANEIDA	spiders												
Unknown		0	0	1	3	1	1	0	0	0	0	0	0
Dictynidae	dictynid spiders	0	0	1	2	1	1	0	0	0	0	0	0
Hahniidae	hahniid spiders	1	1	0	0	0	0	0	0	0	0	0	0
Oxyopidae	lynx spiders	0	0	0	0	1	2	1	1	0	0	0	0
Gnaphosidae	hunting spiders	0	0	1	1	0	0	1	1	1	1	1	1
Thomisidae	crab spiders	0	0	1	3	0	0	1	1	0	0	0	0
Salticidae	jumping spiders	0	0	0	0	0	0	1	2	1	1	1	3
PHALANGIDA	harvestmen												
Unknown		0	0	1	1	0	0	0	0	0	0	0	0
ACARI	ticks and mites												
Unknown		1	85	1	1	1	7	1	2	1	20	0	0
	TOTALS	21	1013	22	45	18	46	23	75	19	77	14	39

Table 2.3-73. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during May 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
HEMIPTERA											
Unknown		1	1	1	1	1	9	1	4	0	0
HOMOPTERA											
Unknown		1	4	1	10	1	12	1	3	0	0
Cicadellidae	leafhoppers	0	0	0	0	1	89	0	0	0	0
Psyllidae	psyllids	1	9	3	33	0	0	1	3	0	0
Coccoidea	scales	0	0	1	6	2	21	0	0	0	0
COLEOPTERA											
Unknown		1	10	1	12	1	15	0	0	0	0
Scydmaenidae	antlike stone beetles	0	0	1	1	0	0	0	0	0	0
Ostomidae	bark-gnawing beetles	0	0	1	1	0	0	0	0	0	0
Cleridae	checkered beetles	0	0	0	0	1	4	0	0	0	0
Elateridae	click beetles	0	0	0	0	0	0	0	0	1	6
Coccinellidae	ladybird beetles	4	36	1	2	7	12	1	4	3	15
Anthicidae	antlike flower beetles	1	1	0	0	0	0	0	0	0	0
Scarabaeidae	scarab beetles	0	0	1	1	1	6	2	9	1	6
Chrysomelidae	leaf beetles	0	0	0	0	2	9	0	0	0	0
NEUROPTERA											
Hemerobiidae	brown lacewings	0	0	0	0	1	3	0	0	0	0
Chrysopidae	green lacewings	0	0	0	0	1	2	0	0	0	0
LEPIDOPTERA											
Unknown		2	17	2	40	1	28	1	31	1	80
Pieridae	sulphurs,whites,and orange tips	0	0	2	8	0	0	1	1	0	0
Sphingidae	sphinx moths	0	0	1	1	0	0	0	0	0	0
Geometridae	geometer moths	0	0	1	2	0	0	0	0	0	0
DIPTERA											
Tipulidae	crane flies	1	1	0	0	0	0	0	0	2	12
Ceratopogonidae	biting midges	0	0	1	3	0	0	1	2	0	0
Chironomidae	midges	1	91	0	0	0	0	1	16	2	50
Mycetophilidae	fungus gnats	0	0	1	2	0	0	1	1	0	0
Sciaridae	dark-winged fungus gnats	1	14	1	24	1	79	2	16	0	0
Cecidomyiidae	gall midges	2	132	1	34	0	0	1	7	1	15
Stratiomyidae	soldier flies	0	0	0	0	1	100	0	0	0	0
Therevidae	stiletto flies	0	0	2	56	1	58	2	2	0	0

Table 2.3-73. (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Apioceridae	flower loving flies	0	0	0	0	0	0	1	1	0	0
Asilidae	robber flies	1	17	1	4	1	6	1	5	1	11
Bombyliidae	bee flies	0	0	1	3	2	3	0	0	2	7
Empididae	dance flies	0	0	2	2	0	0	0	0	0	0
Phoridae	humpbacked flies	1	6	2	3	1	8	1	1	1	6
Pipunculidae	big-headed flies	1	3	1	1	1	5	0	0	1	3
Syrphidae	syrphid flies	2	10	2	4	0	0	1	3	1	1
Sepsidae	black scavenger flies	0	0	1	2	1	1	0	0	0	0
Chamaemyiidae	aphid flies	1	3	1	3	0	0	0	0	1	4
Chloropidae	chloropid flies	3	3	0	0	0	0	0	0	0	0
Agromyzidae	leaf-miner flies	1	6	1	6	0	0	1	23	0	0
Trixoscelididae	trixoscelidid flies	1	3	0	0	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	3	67	2	14	4	12	3	97	2	44
Calliphoridae	blow flies	1	2	0	0	0	0	0	0	1	7
Tachinidae	tachinid flies	3	7	5	12	4	23	2	34	0	0
HYMENOPTERA											
Argidae	argid sawflies	0	0	1	1	0	0	0	0	0	0
Tenthredinidae	common sawflies	0	0	0	0	0	0	0	0	2	2
Braconidae	braconid wasps	6	13	3	4	3	20	1	1	3	13
Ichneumonidae	ichneumonid wasps	7	25	8	17	3	20	4	8	8	24
Eulophidae	eulophid wasps	0	0	1	2	0	0	0	0	0	0
Encyrtidae	encyrtid wasps	1	1	0	0	0	0	0	0	0	0
Pteromalidae	pteromalid wasps	0	0	1	1	3	14	0	0	1	2
Chalcididae	chalcid wasps	1	1	0	0	1	2	0	0	1	1
Diapriidae	diapriid wasps	0	0	1	1	0	0	0	0	0	0
Platygasteridae	platygasterid wasps	1	1	0	0	0	0	0	0	0	0
Bethylidae	bethylid wasps	0	0	0	0	0	0	1	1	0	0
Formicidae	ants	1	2	0	0	0	0	1	4	0	0
Vespidae	paper wasps	1	1	1	1	0	0	0	0	0	0
Sphecidae	sphecid wasps	1	2	0	0	2	6	2	3	0	0
Colletidae	yellow-faced bees	1	2	0	0	0	0	0	0	0	0
Andrenidae	andrenid bees	0	0	4	4	5	32	2	2	2	6
Halictidae	halictid bees	2	58	4	7	4	20	4	9	0	0
Megachilidae	leafcutting bees	2	2	1	1	1	6	1	1	0	0
Apidae	honey bees	4	8	6	15	8	65	5	10	3	4
	TOTALS	62	559	73	345	67	690	47	302	41	319

Table 2.3-74. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 2, pinyon-juniper (south slope), during May 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	3	0.01	***
COLLEMBOLA	46848	99.58	532.27
ORTHOPTERA	1	0.00	***
PSOCOPTERA	1	0.00	0.01
THYSANOPTERA	1	0.00	0.01
HEMIPTERA	2	0.00	0.02
HOMOPTERA	11	0.02	***
COLEOPTERA	27	0.06	***
LEPIDOPTERA	6	0.01	0.06
DIPTERA	9	0.02	0.10
HYMENOPTERA	60	0.13	0.65
SCORPIONIDA	1	0.00	0.01
CHELONETHIDA	1	0.00	0.01
ARANEIDA	13	0.03	0.33
ACARI	60	0.13	***
LITHOBIOMORPHA	1	0.00	0.01
GEOPHILOMORPHA	1	0.00	0.01

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 2/# collected all taxa, site 2) X 100
*** assumptions of density estimation method not met

The total number of captures from vacuuming sagebrush and aerial sweep and beating of pinyon and juniper, was comparable for May, 1975 and May, 1976 (Tables 3-7-285, 3-7-290, and 3-7-304 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-72, 2.3-75, and 2.3-76). The density of invertebrates per cubic meter of sagebrush was greater in May, 1976 than in May, 1975. Larvae of Tortricoidea moths were one of the most abundant groups captured during both sampling periods. Abundant invertebrate groups captured by sweeping and beating of pinyon and juniper were similar for May of 1975 and 1976.

Total captures of invertebrates from sweeping of the herbaceous stratum of the pinyon-juniper south slope habitat were greater in May, 1975 than in May, 1976 (Table 3-7-279 in the Second Annual Report, RBOSP, 1976, and Table 2.3-77).

At the pinyon-juniper, north slope site (Site 3) total invertebrate captures from pitfalls sampled in May, 1975 and May, 1976 were nearly identical. Collembola was the dominant group numerically during both sampling periods (Table 3-7-324 in the Second Annual Report, RBOSP, 1976, and Table 2.3-78). Captures from the litter were substantially greater in May, 1976 due primarily to the increased number of Collembola in the samples (Tables 3-7-269 and 3-7-268 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-70 and 2.3-71). There was a lack of beetles (Coleoptera) observed and collected in both pitfall and litter samples in May, 1976 compared to relatively large capture totals in May, 1975.

Results from aerial sweeping and beating of pinyon and juniper, and vacuuming of sagebrush, were essentially the same for total captures in May, 1975 and May, 1976 although differences existed in the numerically dominant groups (Tables 3-7-285, 3-7-290, and 3-7-330 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-72, 2.3-75, and 2.3-76). Plant bugs (Miridae) were numerically important on juniper in both periods, while samples from pinyon yielded nearly the same dominant groups each period with small changes in capture totals from May, 1975 to May, 1976. Vacuuming samples yielded substantially different estimates of invertebrate density, but the numerically dominant group was the same each period.

Only four insects were captured in the May, 1976 herbaceous sweep sample as compared to 29 in May, 1975. Leafhoppers (Cicadellidae) were the only group captured during both periods (Table 3-7-279 in the Second Annual Report, RBOSP, 1976, and Table 2.3-77).

As at other sampling sites, active flying insect captures were reduced substantially in May, 1976. Much of this reduction results from the absence in samples of these dipteran families such as Chironomidae, Mycetophilidae, and Sciaridae whose larval stages are dependent on relatively moist conditions in the environment (Table 3-7-296 in the Second Annual Report, RBOSP, 1976, and Table 2.3-73). Such conditions did not exist in May, 1976.

Table 2.3-75. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during May 1976 for RBOSP

ORDER Family	Common name	Site 1 A	Site 1 B	Site 2P A	Site 2P B	Site 2J A	Site 2J B	Site 3P A	Site 3P B	Site 3J A	Site 3J B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	0	0	0	0	0	0	1	49
PSOCOPTERA											
Unknown		1	18	0	0	1	3	0	0	0	0
THYSANOPTERA											
Unknown		3	84	1	8	0	0	0	0	0	0
HEMIPTERA											
Unknown		1	48	0	0	0	0	1	2	0	0
Anthocoridae	minute pirate bugs	1	1	0	0	0	0	0	0	0	0
Miridae	plant bugs	0	0	0	0	1	19	0	0	1	6
Reduviidae	assassin bugs	0	0	0	0	0	0	1	3	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	1	19	0	0	0	0	0	0	0	0
Psyllidae	psyllids	1	3	0	0	0	0	0	0	0	0
Aphididae	aphids	1	31	1	1	0	0	0	0	0	0
Coccoidea	scales	1	69	0	0	0	0	1	3	0	0
COLEOPTERA											
Unknown		0	0	0	0	0	0	0	0	1	1
Cleridae	checkered beetles	0	0	1	2	0	0	0	0	0	0
Coccinellidae	ladybird beetles	3	8	1	2	0	0	0	0	0	0
Anthicidae	antlike flower beetles	1	1	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	0	0	0	0	1	2	1	1	0	0
Curculionidae	snout beetles	1	2	1	6	1	4	1	1	0	0
NEUROPTERA											
Chrysopidae	green lacewings	0	0	0	0	0	0	1	2	0	0
LEPIDOPTERA											
Unknown		1	2	0	0	1	1	0	0	0	0
Noctuidae	cutworm moths	0	0	0	0	0	0	1	1	0	0
Geometridae	geometer moths	1	1	0	0	0	0	0	0	0	0
HYMENOPTERA											
Xyelidae	xyelid sawflies	0	0	1	1	0	0	1	1	0	0
Braconidae	braconid wasps	1	1	0	0	0	0	0	0	1	2
Eulophidae	eulophid wasps	1	1	1	1	0	0	0	0	0	0
Formicidae	ants	1	16	2	6	0	0	1	1	1	1

Table 2.3-75. (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	1	4	0	0	0	0
Araneidae	orb weavers	0	0	1	1	1	2	1	1	0	0
Oxyopidae	lynx spiders	0	0	0	0	1	2	0	0	0	0
Thomisidae	crab spiders	2	3	1	2	0	0	1	2	0	0
Salticidae	jumping spiders	0	0	0	0	1	2	1	2	0	0
ACARI	ticks and mites										
Unknown		1	16	1	1	1	2	1	2	1	1
	TOTALS	23	324	12	31	10	41	13	22	6	60

Table 2.3-76. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during May 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	1	1	0	0	0	0	0	0
THYSANOPTERA											
Unknown		3	25	1	4	0	0	0	0	0	0
HEMIPTERA											
Miridae	plant bugs	2	7	0	0	1	14	0	0	1	27
HOMOPTERA											
Cicadellidae	leafhoppers	1	1	0	0	0	0	0	0	0	0
Psyllidae	psyllids	1	4	2	2	0	0	1	1	0	0
Aphididae	aphids	0	0	1	1	0	0	1	1	0	0
Coccoidea											
Coccinellidae	ladybird beetles	1	5	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	2	2	1	1	0	0	0	0	0	0
Curculionidae	snout beetles	2	2	1	1	0	0	1	5	1	1
LEPIDOPTERA											
Unknown		0	0	0	0	0	0	0	0	1	1
DIPTERA											
Agromyzidae	leaf-miner flies	1	5	0	0	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	1	1	0	0	0	0	0	0	0	0
HYMENOPTERA											
Braconidae	braconid wasps	0	0	0	0	1	1	0	0	0	0
Eulophidae	eulophid wasps	1	2	0	0	0	0	0	0	0	0
Pteromalidae	pteromalid wasps	0	0	0	0	0	0	2	2	0	0
Chalcididae	chalcid wasps	0	0	0	0	0	0	0	0	2	2
Formicidae	ants	1	3	1	1	0	0	1	1	0	0
ARANEIDA											
Araneidae	orb weavers	0	0	1	2	0	0	0	0	1	5
Thomisidae	crab spiders	1	1	0	0	0	0	1	1	1	1
Salticidae	jumping spiders	1	5	0	0	0	0	1	1	1	1
ACARI	ticks and mites										
Unknown		1	3	0	0	0	0	0	0	0	0
	TOTALS	19	66	9	13	2	15	8	12	8	38

Table 2.3-77. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during May 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
THYSANOPTERA											
Unknown		3	133	0	0	0	0	1	2	0	0
HEMIPTERA											
Unknown		0	0	0	0	0	0	1	4	0	0
Coreidae	leaf-foot bugs	0	0	0	0	0	0	0	0	1	1
HOMOPTERA											
Cicadellidae	leafhoppers	1	4	1	3	2	2	3	4	3	8
Delphacidae	delphacid planthoppers	0	0	0	0	0	0	1	2	0	0
Psyllidae	psyllids	0	0	0	0	0	0	1	3	0	0
Aphididae	aphids	0	0	0	0	0	0	0	0	1	3
COLEOPTERA											
Elateridae	click beetles	0	0	0	0	0	0	0	0	1	1
Chrysomelidae	leaf beetles	0	0	2	4	0	0	0	0	2	2
Curculionidae	snout beetles	0	0	0	0	1	2	0	0	1	1
DIPTERA											
Ceratopogonidae	biting midges	0	0	0	0	0	0	0	0	1	1
Phoridae	humpbacked flies	0	0	0	0	0	0	0	0	1	1
Conopidae	thick-headed flies	0	0	0	0	0	0	0	0	1	1
Chloropidae	chloropid flies	0	0	0	0	0	0	0	0	1	6
Agromyzidae	leaf-miner flies	0	0	0	0	0	0	0	0	1	2
HYMENOPTERA											
Braconidae	braconid wasps	1	1	1	1	0	0	0	0	1	3
Eulophidae	eulophid wasps	0	0	0	0	0	0	0	0	1	1
Pteromalidae	pteromalid wasps	0	0	0	0	0	0	1	3	2	2
Platygasteridae	platygasterid wasps	1	8	0	0	0	0	0	0	1	2
Formicidae	ants	2	11	0	0	0	0	1	1	4	11
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	0	0	1	1	1	6
Salticidae	jumping spiders	0	0	0	0	0	0	0	0	1	1
	TOTALS	8	157	4	8	3	4	10	20	25	53

Table 2.3-78. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 3, pinyon-juniper (north slope), during May 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
COLLEMBOLA	225	63.03	2.80
PSOCOPTERA	1	0.28	0.01
HEMIPTERA	1	0.28	0.01
HOMOPTERA	6	1.68	0.22
COLEOPTERA	9	2.52	***
LEPIDOPTERA	2	0.56	***
DIPTERA	13	3.64	***
HYMENOPTERA	33	9.24	***
ARANEIDA	20	5.60	0.33
ACARI	47	13.17	0.96

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 3/# collected all taxa, site 3) X 100
*** assumptions of density estimation method not met

At the upland sagebrush site (Site 4) greater numbers of ground dwelling and litter dwelling invertebrates were present in May of 1975 than in May, 1976. Much of the decrease in numbers demonstrated in May, 1976 was due to the relative lack of Collembola active on the ground surface at this site (Tables 3-7-333 and 3-7-269 in the Second Annual Report, RBOSP, 1976 and Tables 2.3-71 and 2.3-79).

Total captures from general herbaceous sweep samples and vacuuming of sagebrush were essentially the same in May, 1975 and May, 1976 (Table 3-7-279 in the Second Annual Report, RBOSP, 1976, and Table 2.3-77). Numerically dominant groups were different each year with thrips (Thysanoptera) very abundant in both sweep and vacuum samples in May, 1976. In May, 1975 a variety of groups were equally abundant including Formicidae, Delphacidae, Coccinellidae and a variety of Lepidoptera larvae.

Captures from Malaise traps decreased from over 4000 in May, 1975 to only 300 in May, 1976 (Table 3-7-296 in the Second Annual Report, RBOSP, 1976, and Table 2.3-73). As in the other habitat types, much of this reduction was due to the reductions in families whose larval stages are moisture dependent.

At the mixed brush site (Site 5) pitfall and litter captures were substantially higher in May, 1976 than in May, 1975. In both sampling types, the increase in captures this year was due primarily to an increase in Collembola (Tables 3-7-342, 3-7-269, and 3-7-268 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-70, 2.3-71, and 2.3-80).

Total captures from general herbaceous sweep samples and vacuuming of serviceberry and snowberry were essentially the same both years, although the numerically dominant groups have changed somewhat. In May, 1975, weevils (Curculionidae) were the most abundant group captured from both plant species. In May, 1976, mites (Acari) and thrips (Thysanoptera) and ants (Formicidae) were the dominant groups taken from serviceberry and snowberry, respectively (Tables 3-7-279 and 3-7-285 in the Second Annual Report, RBOSP, 1976, and Tables 2.3-71 and 2.3-77).

Captures from Malaise traps decreased from over 6500 in May, 1975 to only 319 in 1976. As at other vegetation types much of this reduction was due to reductions in total numbers of families whose larval stages are moisture dependent (Table 3-7-296 in the Second Annual Report, RBOSP, 1976, and Table 2.3-73).

LITERATURE CITED

Gist, C.A. and D.A. Crossley, Jr. 1973. A method of quantifying pitfall trapping. Environmental Entomology 2(5):951-952.

RBOSP. 1976. Second Annual Report for the Terrestrial Data Accumulation Program. January 1976. 3 volumes.

Table 2.3-79. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 4, sagebrush, during May 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	1	0.05	0.01
COLLEMBOLA	1352	61.96	15.43
ORTHOPTERA	1	0.05	0.01
HEMIPTERA	16	0.73	***
HOMOPTERA	20	0.92	1.30
COLEOPTERA	26	1.19	***
LEPIDOPTERA	17	0.78	***
DIPTERA	29	1.33	0.31
SIPHONAPTERA	1	0.05	0.01
HYMENOPTERA	406	18.61	***
ARANEIDA	61	2.80	***
ACARI	252	11.55	***

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 4/# collected all taxa, site 4) X 100
*** assumptions of density estimation method not met

Table 2.3-80. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 5, mixed brush, during May 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	37	6.56	***
COLLEMBOLA	241	42.73	4.31
ORTHOPTERA	3	0.53	0.03
HEMIPTERA	3	0.53	0.05
HOMOPTERA	18	3.19	***
COLEOPTERA	34	6.03	***
LEPIDOPTERA	10	1.77	***
DIPTERA	11	1.95	0.18
SIPHONAPTERA	1	0.18	0.01
HYMENOPTERA	41	7.27	***
CHELONETHIDA	2	0.35	0.03
ARANEIDA	73	12.94	***
PHALANGIDA	5	0.89	0.04
ACARI	85	15.07	***

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 5/# collected all taxa, site 5) X 100
*** assumptions of density estimation method not met

2.3.9.5 Terrestrial Invertebrates Raw Data

2.3.9.5 Terrestrial Invertebrates Raw Data

83.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco / 83 Site Name & No.: Grasswood-edge / 1

Collection Date(s): May 1976 Veg. Type or Plant Sp.: —

Sampling Means Herb. sw. Sorting Means hand

Taxonomist & Date Started: DEK 4 Aug Call Ref. No.: 83A HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	~~Litter Dry Weight~~ ~~Plant Size~~ Field Log Number 499
27	061		1	A	O	9
27	061		2	A	O	2
			3			
			4			
			5			
27	014		6	A	F	1
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
18	003		25	A	H	4
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmm 8-31-76

RBOSP PROGRESS REPORT

Project: 83 Site: 1 Ref. No.: 83A HS Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			479
			2			
			3			
			4			
17	000		5	A	H	126
17	000		6	U	H	6
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Form 8-31-76

Page 2 of 2

Project: 73 Site: 1 Ref. No.: 73AH5 Date: May

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			41			
			2			
			3			
			4			
17	001		5	A	H	1
			6			
			7			
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
27	049		9	A	F	8
			120			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

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83.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco / 83 Site Name & No.: Pin-Junip South Slope / 2

Collection Date(s): May 76 Veg. Type or Plant Sp.#: —

Sampling Means Herb. sweeps Sorting Means hand

Taxonomist & Date Started: BELL 4Aug 76 Call Ref. No.: 83 B HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 545
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 8-31-76

RBOSP PROGRESS REPORT

Project: 83 Site: 2 Ref. No.: 83B 45 Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			585
			2			
			3			
			4			
			5			
			6			
			7			
			8			
18	003		9	A	H	3
			40			
			1			
			2			
			3			
			4			
			5			
19	110		6	A	H	3
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
27	014		8	A	F	1
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
19	110		4	A	H	1
			5			
			6			
			7			
			8			
			9			
			80			

[redacted]

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83.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope / 3

Collection Date(s): May 76 Veg. Type or Plant Sp.: —

Sampling Means Herb. sweeps Sorting Means Hand

Taxonomist & Date Started: BEK 4Aug 76 Call Ref. No.: 83C HS—

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 546
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 8-31-76

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Project: 83 Site: 3 Ref. No.: 83C 4S Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			546
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
18	003		4	A	H	1
18	003		5	A	H	1
19	123		6	A	H	2
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

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83.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco / 83 Site Name & No.: Upland Sage / 4

Collection Date(s): May 76 Veg. Type or Plant Sp.: ———

Sampling Means Herb. Swp Sorting Means Hand

Taxonomist & Date Started: PBH 4 Aug 76 Call Ref. No.: 83D H5 -

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 514
			1			
			2			
27	061		3	A	O	1
			4			
27	029		5	A	P	3
			6			
			7			
			8			
			9			
			10			
18	016		11	A	H	3
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
19	003		26	A	H	1
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 8-31-76

RBOSR PROGRESS REPORT

Page 2 of 2

Project: 83 Site: 4 Ref. No.: 83D HS Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
33	020		1	A	P	514 1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
17	000		50	A	H	2
			1			
			2			
			3			
			4			
			5			
			6			
17	000		7	A	H	4
18	003		8	A	H	2
18	003		9	A	H	1
18	005		0	A	H	2
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

83.11.34

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Polanco /83 Site Name & No.: Mixed brush /S

Collection Date(s): May 76 Veg. Type or Plant Sp.: ———

Sampling Means Herb sweeps Sorting Means Hand

Taxonomist & Date Started: Beal 11 Aug 76 Call Ref. No.: 835 HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
27	061		1	A	O	2
			2			
			3			
27	061		4	A	O	4
27	061		5	A	O	2
			6			
			7			
			8			
			9			
			10			
			11			
			12			
25	083		13	A	F	2
			14			
			15			
			16			
			17			
18	003		18	A	H	3
			19			
			20			
			21			
19	123		22	A	H	1
			23			
			24			
			25			
			26			
			27			
19	110		28	A	H	1
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 8-31-76

RISS Processing Label

Project: 83 Site: 5 Ref. No.: 835HS Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
23	079		2	A	P	1
			3			
			4			
			5			
			6			
18	018		7	A	H	2
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
27	061		6	A	O	3
			7			
			8			
			9			
			60			
27	049		1	A	F	2
			2			
27	018		3	A	F	1
			4			
			5			
			6			
			7			
27	029		8	A	P	1
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Project: 93 Site: 5 Ref. No.: 835 HS Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 537									
			41												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			90												
			1												
			2												
			3												
			4												
			5												
25	013		6	A	P	1									
			7												
25	042		8	A	S	1									
			9												
			100												
			1												
			2												
27	014		3	A	F	3									
			4												
			5												
			6												
			7												
			8												
			9												
			110												
			1												
			2												
			3												
			4												
			5												
27	029		6	A	P	1									
			7												
			8												
			9												
			120												
18	003		1	A	H	2									
[illegible]	[illegible]		2	I	H	3									
23	020		3	A	P	6									
[illegible]	[illegible]		4	A	H	1									
19	110		5	A	H	1									
25	041		6	A	F	6									
17	026		7	I	M	1									
[illegible]			8	A		1									
			9												
			130												

8-31-71

83.1153

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: Greasewood-Sage (1)

Collection Date(s): May 1976 Veg. Type or Plant Sp.: Chrysothamnus VI

Sampling Means TDVac Sorting Means Hand

Taxonomist & Date Started: BEK 2 Aug 76 Call Ref. No.: 83ATD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size cm 20. 30. 30. 56. 38. Calib Field Log Number 489 490 491 492 493 502										
27	067		1	A	O		4			1						
27	067		2	A	O			1								
27	067		3	A	O	1										
			4													
			5													
			6													
			7													
19	123		8	A	H	3		2	7		1					
			9													
25	000		10	A	U	48	2	34		1						
33	052		11	A	P	1										
			12													
			13													
			14													
			15													
19	003		16	I	H	3		2								
			17													
			18													
25	042		19	A	S	1										
			20													
			21													
27	049		22	A	F			1								
27	049		23	A	F	1	1	1	1	1						
19	003		24	I	H	1										
			25													
16	000		26	A	H	9	10	12		1						
			27													
			28													
			29													
			30													

DVAC Calib. Field Log No. 502 from Field Log No. 490

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 8-31-76

RBOSP PROGRESS

Project: 83 Site: 1 Ref. No.: 83ATD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 459	476	477	492	493	502
21	067		31	A	O	1					
			2								
27	067		3	A	O			3			
			4								
			5								
			6								
			7								
			8								
			9								
			40								
			1								
			2								
			3								
19	110		4	A	H					1	
			5								
			6								
			7								
16	003		8	I	H			1	5		
			9								
			50								
			1								
			2								
			3								
			4								
			5								
			6								
16	000		7	A	H	111	85	196	332	122	
			8								
			9								
			60								
			1								
			2								
			3								
19	084		4	A	P		1				
12	008		5	A	S	3					
			6								
			7								
			8								
			9								
			70								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

RECEIVED 8-26-76

Project: 83 Site: 1 Ref. No.: 83ATD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 489	495	491	492	493	502
			81								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			90								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
27	016		100	A	F		1				
17	037		1	A	+1				1		
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

83.11.33

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: South P-J 2(A)

Collection Date(s): MAY 1976 Veg. Type or Plant Sp.: Pinyon-Juniper

Sampling Means TRAP D-VAC Sorting Means BERLESE

Taxonomist & Date Started: 7/30/76 db Call Ref. No.: 83 BTD

Order Number	Family Number	Species Number	Coll. Ref. Number		Age Class	Feeding Class	Litter Dry Weight Plant Size cm 23 38. 30 21. 20. calib Field Log Number 422 474 475 476 477 478
27	061			1	A	O	1
				2			
				3			
				4			
				5			
18	033			6	I	H	2
24	000			7	I	H	1
				8			
				9			
				10			
				11			
				12			
33	020		83 B TD	13	A	P	2
33	065			14	A	P	1
				15			
				16			
				17			
				18			
27	061			19	A	O	4
				20			
				21			
18	003			22	A	H	2
				23			
				24			
				25			
				26			
				27			
24	000			28	I	H	3 1 1
33	000			29	L	P	1 2
				30			

DVAC Calib. Field Log No. 478 from Field Log No. 473

~~Berlese Calib.~~ Field Log No. _____ from Field Log No. _____

QA Check: Lmw 8-31-76

RBOSP PROGRESS REPORT

Project: 83 Site: 2 Ref. No.: 83BTD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 473	474	475	476	477	478
			31								
			2								
			3								
			4								
			5								
33	077		6	A	P			1	1	1	
			7								
			8								
			9								
			40								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			50								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
25	020		9	A	F			2			
19	123		60	A	H		1	1	5		
			1								
04	004		62	A	S	5	1				
19	123		63	A	H	1	1	2			
04	003		64	A	S	1					
16	000		65	A	H	1					
34	000		66	A	S		1				
35	000		67	A	U		1				
19	049		68	A	H					1	
27	016		69	A	F	1					
27	014		70	A	F		1				
17	027		71	A	H					1	
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

RBCSP ... DATA REPORT

83.11.33

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: Pinyon-Junip North Slope(

Collection Date(s): May 76 Veg. Type or Plant Sp.: Artr

Sampling Means Trap DVAC Sorting Means Hand

Taxonomist & Date Started: BEK 2 Aug 76 Call Ref. No.: 83CTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight									
						Plant Size cm	33.	25.	33.	25.	46	calib			
						Field Log Number	555	556	557	558	559	560			
27	061		1	A	O		1								
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
33	020		13	A	P	1						1			
			14												
			15												
			16												
35	000		17	A	U	7									
33	061		18	A	P	1					1				
			19												
			20												
24	000		21	I	H							1			
24	000		22	I	H	1	1								
			23												
			24												
			25												
			26												
			27												
			28												
			29												
27	041		30	A	E						1				

DVAC Calib. Field Log No. 560 from Field Log No. 555

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: lmw 8-31-76

RBOSP

Project: 63 Site: 3 Ref. No.: 83C TD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 555	556	557	558	559	560
			31								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			40								
			1								
			2								
			3								
			4								
			5								
18	033		6	I	H				5	1	
			7								
			8								
19	123		9	A	H		8	2		1	
			50								
			1								
			2								
27	018		3	A	H	1					
19	110		4	A	F	2				1	
18	003		5	A	H	1		1			
19	003		6	A	H		1				
19	003		7	A	H				1		
19	033		8	A	H				1		
14	000		9	A	H				4	1	1
33	000		60	I	P					1	
22	009		1	I	P						1
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Anal S. 21-76

83.11.33

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: Upland Sage (4)

Collection Date(s): May 76 Veg. Type or Plant Sp.: Artr

Sampling Means TDVac Sorting Means Hand

Taxonomist & Date Started: BEL 3 Aug 76 Call Ref. No.: 83DTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight — Plant Size cm: 30 / 38 / 38 / 13 / 30 / col. — Field Log Number: 503	504	505	506	507	513
			1								
27	061		2	A	O		1		2		1
27	061		3	A	O					4	
			4								
27	061		5	A	O	1	1	2	2		
			6								
			7								
			8								
35	000		9	U	U				2		
			10								
19	047		11	A	H			1			
			12								
			13								
			14								
			15								
			16								
24	000		17	I	H				1	1	
19	000		18	I	U	1			2		
04	003		19	U	S						2
			20								
33	079		21	A	P			1		1	
27	061		22	A	O	2	1			1	
			23								
33	077		24	A	P					1	
			25								
			26								
18	003		27	A	H	2			4		
18	005		28	I	H		1				
			29								
			30								

DVAC Calib. Field Log No. 513 from Field Log No. 504

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 8-31-76

[illegible]

Project: 83 Site: 4 Ref. No.: 83DTD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 503	504	505	506	507	513
			31								
			2								
18	016		3	A	H				2		
			4								
			5								
			6								
			7								
33	065		8	A	P					1	
			9								
			40								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			50								
			1								
			2								
16	000		3	A	H	13	6	3	2		4
			4								
18	037		5	I	H					1	
			6								
			7								
			8								
			9								
			60								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
19	123		70	A	H	2		2	2		
19	123		1	A	H	1					
38	061		2	A	P		1				
19	084		3	A	P		1				
27	018		4	A	F		1	1			
27	029		5	A	F		1				
			6								
			7								
			8								
			9								
			80								

8-31-76

831133

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco / 83 Site Name & No.: Mixed brush (5)

Collection Date(s): May 76 Veg. Type or Plant Sp.: Amut

Sampling Means T DVac Sorting Means Hand

Taxonomist & Date Started: DER 3 Aug 76 Call Ref. No.: 835TD Amlu

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size (cm) 11 / 51 / 61 / 51 / 61 / cal. Field Log Number 520 / 521 / 522 / 523 / 524 / 535
			1			
			2			
27	061		3	A	O	4
			4			
			5			
			6			
			7			
35	600		8	U	U	16 / 3 / 1
04	003		9	U	S	2 / 2
33	065		10	A	P	1 / 1
33	079		11	A	P	1
			12			
18	016		13	A	H	3 / 5 / 2 / 3
			14			
			15			
			16			
			17			
			18			
			19			
			20			
29	006		21	A	P	1
			22			
24	020		23	I	H	1
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. 535 from Field Log No. 522

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hm 8-31-76

RBOSP PROGRESS REPORT

Project: [illegible] Site: Ca Ref. No.: 835 TD Anal Date: May 7[illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 520	521	522	523	524	535
			31								
			2								
			3								
			4								
			5								
10	49		6	A	H		1				
			7								
			8								
			9								
			40								
			1								
			2								
			3								
16	000		4	A	H	4			2	14	
			5								
			6								
			7								
			8								
			9								
18	018		50	A	H	1					
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
16	000		9	A	H		1				
			60								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			70								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			80								

Land 8-24-76

Project: 83 Site: 5a Ref. No.: 835TD Amla Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 20	21	22	23	24	35
			91								
			2								
04	005		3	U	H	1					
25	020		4	A	F	1					
24	031		5	I	H	2					
24	000		6	F	H	1		1			
A	003		7	A	H		1				
27	049		8	A	F				1		
27	049		9	A	F				1		
			90								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Form 8

83.11.33

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed brush /56

Collection Date(s): May 76 Veg. Type or Plant Sp.: Symph or

Sampling Means TDVac Sorting Means Hand

Taxonomist & Date Started: PEK 3 Aug 76 Call Ref. No.: E35 TD Symph

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size (cm) / Field Log Number									
						16 525	56 526	25 527	38 528	32 529	cal 536				
27	061		1	A	O		2	2		4					
27	061		2	A	O				5						
27	061		3	A	O	1		.	1	1					
			4												
			5												
			6												
			7												
			8												
33	065		9	A	P			1							
			10												
			11												
18	003		12	I	H		5			1					
			13												
			14												
			15												
			16												
27	061		17	A	O					1					
			18												
			19												
			20												
			21												
			22												
16	000		23	A	H			1							
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. 536 from Field Log No. 527

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hmw 8-31-76

PROGRESS REPORT

Project: 83 Site: 5b Ref. No.: 83STD Symp Date: May 16

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 525	526	527	528	529	536
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			50								
			1								
			2								
18	003		3	A	H			1			
			4								
			5								
			6								
			7								
			8								
			9								
			60								
27	018		1	A	F	1					
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			70								
			1								
			2								
			3								
			4								
			5								
			6								
33	019		7	A	P			1		2	
			8								
25	014		9	A	F	2	2				
24	031		80	I	H	1	1			1	

RBOSP

Mod 8-31-7

Project: [illegible] Site: 56 Ref. No.: 835TD Synph Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 525	526	527	528	529	536				
25	020		41	A	F		2								
27	049		2	A	F					1					
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Form 8-31

93.11.35

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood-sage / 1

Collection Date(s): May 76 Veg. Type or Plant Sp.: Artr

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BER 4 Aug Call Ref. No.: 83A B

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 501
			1			
27	018		2	A	F	1
			3			
19	086		4	A	H	1
			5			
			6			
			7			
17	000		8	I	U	≤9
			9			
			10			
18	018		11	U	H	31
			12			
			13			
24	000		14	I	H	2
33	077		15	A	P	2
35	000		16	U	U	16
			17			
19	084		18	A	P	3
19	123		19	A	H	2
17	000		20	A	H	12
			21			
			22			
			23			
			24			
17	021		25	A	P	1
			26			
			27			
27	661		28	A	O	16
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 8-31-76

INCLUDED IN PROGRESS REPORT

Project: 83 Site: 1 Ref. No.: 83 A B Date: May 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			501
			32			
			33			
			34			
			35			
			36			
			37			
			38			
			39			
			40			
			41			
			42			
			43			
			44			
			45			
			46			
			47			
17	000		48	A	H	13
			49			
			50			
18	033		51	U	H	69
			52			
17	000		53	A	H	48
24	031		54	I	H	1
			55			
33	077		56	A	P	1
			57			
			58			
19	074		59	A	P	3
19	074		60	A	P	2
27	014		61	A	F	1
18	003		62	I	H	19
18	016		63	A	H	3
12	000		64	U	S	A
			65			
			66			
			67			
			68			
			69			
			70			
			71			1
			72			
			73			
			74			
			75			
			76			
			77			
			78			
			79			
			80			

83.11.35

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope (2

Collection Date(s): May 76 Veg. Type or Plant Sp.: Juos

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: EEK 3 Aug 76 Call Ref. No.: 83 B B Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 552
17	024		1	I	H	19
19	123		2	A	H	4
12	008		3	U	S	3
35	000		4	U	U	2
33	061		5	A	P	2
			6			
33	079		7	A	P	2
33	020		8	A	P	4
33	047		9	A	P	2
24	000		10	I	H	1
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 8-31-76

RBOSP PROGRESS REPORT

Page 2 of 2

Project: 83 Site: 2 Ref. No.: 83BB Fuos Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
19	110		4	A	H	2
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Sam, 8-31-76.

83.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pied- Juos North Slp / 3

Collection Date(s): May 76 Veg. Type or Plant Sp.: PIED

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEK 3Aug76 Call Ref. No.: 83C B Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 553
17	627		1	I	P	3
			2			
18	033		3	I	H	3
35	000		4	U	U	2
33	047		5	A	P	1
33	077		6	A	P	2
			7			
			8			
			9			
19	123		10	A	H	1
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
17	000		20	A	H	2
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 8-31-76

RBOSP PROGRESS REPORT

Project: 83 Site: 3 Ref. No.: 83CB Pied Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 553
33	079		31	A	P	2
			2			
			3			
			4			
			5			
			6			
			7			
19	110		8	A	H	1
27	061		9	A	O	1
27	001		40	A	F	1
24	020		1	I	H	1
22	009		2	I	P	2
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

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LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Juniper South S/p (2)

Collection Date(s): May 76 Veg. Type or Plant Sp.: Pied

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEK 3 Aug 76 Call Ref. No.: 83 B B Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 551
35	000		1	U	U	1
27	061		2	A	O	5
			3			
			4			
			5			
18	018		6	A	H	1
33	047		7	A	P	1
			8			
33	077		9	A	P	2
14	043		10	A	H	1
19	084		11	A	P	2
			12			
			13			
			14			
17	000		15	A	A	8
			16			
			17			
27	061		18	A	O	1
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
27	018		29	A	F	1
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 8-31-76

RBOSP PROGRESS REPORT

Page 1 of 2

Project: 283 Site: 2 Ref. No.: 83B B Pow Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 551
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
27	001		6	A	F	1
19	123		7	A	H	6
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

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LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pia-Junip / North Slp (3)

Collection Date(s): May 76 Veg. Type or Plant Sp.: Juni

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEC 3 Aug 76 Coll Ref. No.: 83 C B Juni

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
17	024		1	I	H	6
			2			
35	000		3	U	U	1
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
09	005		24	U	H	49
			25			
			26			
			27			
			28			
19	000		29	I	U	1
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: lmm 8-31-76

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Project: 163 Site: 3 Ref. No.: 83C B Juos Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 554								
27	061		31	A	O	1								
27	014		2	A	F	2								
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											

bcm 8-31-76

R&C 11.3.1
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LAB DATA ANALYSIS - INVERTEBRATE PITFALL TRAP SAMPLES

Project Name & No.: 83 RIO BLANCO — Site Name & No.: GREENWOOD 1CA

Collection Date(s): MAY '76 — Vegetation Type: SAGE RABBITBRUSH

Pitfall Type 1/: PITFALL GRID — Sorting Means: HAND

Taxonomist & Date Started: DB 12 JUNE '76 — Species List Ref. No.: 83APF

Order Number	Family Number	Species Ref. Number	Day Number 2/ Sample Number: 1 (452)	2 (462)	3 (467)	4 (485)	5 (519)	6 (544)	7 (564)	8 (572)	9 (578)
			Age Class / Feeding Guild								
19	005	1	A P			1					
		2									
~~19~~	~~005~~	3									
19	005	4	I P	2	1	6	3	1	1	1	2
		5									
		6									
		7									
04	000	8	A S					3		1	2
02	000	9	A S			1					
34	000	10	A S						1	2	5
		11									
		12									
		13									
		14									
		15									
		16									
29	061	17	A O		2	2	8	9	7	5	4
		18									
		19									
		20									
19	047	21	A H			1	2		1	1	1
		22									
		23									
		24									
		25									
		26									
		27									
		28									
		29									
		30									

1/ Grid or line — 2/ Not applicable for pitfall lines

QA Check: [illegible] 7-27-77

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Project: '73 Rio Blanco Site: Greasewood 1A Sp. List Ref. No.: 73APF Date: MAY

Order Number	Family Number	Species Ref. Number	Day Number: Age Class	Fert. Stage	1 (457)	2 (462)	3 (467)	4 (485)	5 (519)	6 (544)	7 (568)	8 (593)	9 (Total)
		31											
		32											
		33											
		34											
		35											
		36											
		37											
		38											
		39											
		40											
27	061	41	A	O								1	4
19	005	42	A	P						1			
		43											
		44											
		45											
		46											
		47											
		48											
19	005	49	A	P		1				1		1	
		50											
		51											
		52											
		53											
		54											
		55											
		56											
		57											
04	000	58	A	S					2		1		7
		59											
		60											
		61											
19	005	62	A	P							2		1
		63											
		64											
		65											
		66											
		67											
		68											
35	000	69	A	U		13	1	8	9	60	27	19	12 1
		70											
		71											
		72											
25	000	73	H	U					7	2		2	2 1
18	000	74		H		1	1	3		3	1	3	
		75											
		76											
17	000	77		U								1	1
		78											
27	061	79	A	O									3
12	000	80	A	S					1	1	5	5	3 1

RBOSP PROGRESS REPORT

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Ann 7-27-77

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Project: 83 Rio Blanco Site: Greenwood 1A Sp. List Ref. No.: 83APF Date: MAY '83

Order Number	Family Number	Species Ref. Number	Day Number / Sample Number 1: 452	2: 462	3: 862	4: 425	5: 519	6: 544	7: 568	8: 523	9: 528	10: 588	Age Class Totals
		81											
22	000	82						1					
		83											
		84											
		85											
		86											
		87											
		88											
		89											
		90											
		91											
		92											
		93											
		94											
		95											
		96											
		97											
		98											
		99											
		100											
		101											
		102											
		103											
		104											
19	108	105					1						A
		106											
		107											
		108											
		109											
19	026	110	1		1								A 1
19	123	111		1									A
04	000	112		22	56								A
04	000	113				1							A
33	000	114	5	1	2	2	4	5	5	13	16	1	A 1
24	000	115	1		1	1		1	1		4	1	A 1
27	061	116					1						A
04	000	117					1						A
50	000	118					1						A 1
19	005	119						1					A
19	026	120						1			1	1	A 1
04	000	121						1	1				A
19	026	122							1				A 1
07	000	123									1		A 1
		124											
		125											
		126											
		127											
		128											
		129											
		130											

RECLP PROGRESS REPORT

142/102975-2

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LAB DATA ANALYSIS - INVERTEBRATE PITFALL TRAP SAMPLES

Project Name & No.: 83 Rio Blanco — Site Name & No.: SOUTH PJ 2(A)

Collection Date(s): MAY '76 — Vegetation Type: PINYON-JUNIPER

Pitfall Type 1/: PITFALL GRID — Sorting Means: HAND

Taxonomist & Date Started: DB JUNE 28 1976 — Species List Ref. No.: 83BCC

Order Number	Family Number	Species Ref. Number	Day Number 2/ AGE CLASS	FEEDING CLASS	1	2	3	4	5	6	7	8	9	Total
					Sample Number 456	461	476	486	518	543	567	572	579	
		1												
		2												
		3												
19	110	4	A	H			1			1				
		5												
		6												
		7												
		8												
19	110	9	A	H				1						
		10												
		11												
19	047	12	A	H										
27	061	13	A	O	2		1	1				1		
27	061	14	A	O			3	2	2	1	2			
		15												
		16												
		17												
		18												
		19												
		20												
		21												
		22												
		23												
		24												
		25												
		26												
		27												
		28												
		29												
19	026	30	A	P					1					

FILE COPY PROJECT'S FINAL REPORT

1/ Grid or line — 2/ Not applicable for pitfall lines

142-102975-1

QA Check: Ann 7-27-76

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Project: 83 Rio Blanco Site: SD. PIN-TA 2(B) Sp. List Ref. No.: 83BPF Date: MAY '76

Order Number	Family Number	Species Ref. Number	Day Number 1	2	3	4	5	6	7	8	9	10	AGE CLASS Total
			Sample Number 456	461	466	486	518	543	567	572	579	581	
19	108	31					1				1		A
		2											
27	061	33		1			1					1	A
		4											
		5											
		6											
		7											
		8											
		9											
		40											
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
19	042	49								1			A
19	108	50								1	1		A
		1											
		2											
27	061	53			1	2	2	1	2			2	H
		4											
		5											
24	020	56		1	1								I
		7											
		8											
		9											
		60											
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		70											
		1											
		2											
35	000	73	6			14		6	13	11	6	4	A
07	000	74										1	A
		5											
27	000	76								1	1		A
		7											
18	000	78			1	1	1	1	2	5			
		9											
25	000	80		4	1		1	1	2				A

NOSP PROGRESS REPORT
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ecology consultants, inc.

Project: 83 Rio Bravo Site: Sapello 8(A) Sp. List Ref. No.: 83RPF Date: 8/29/83

Order Number	Family Number	Species Ref. Number	Day Number 1	2	3	4	5	6	7	8	9	10	Total
			Sample Number 456	461	466	486	518	543	567	522	529	587	
12	000	81				*2							
04	000	82	1,446	*17,250	*2,610	*5,324	2,122	3,210	*2,440	X575	319	134	
02	000	83							1	1		1	
		84											
		85											
28	000	86									1		
16	000	87	1										
		88											
		89											
		90											
		91											
		92											
		93											
		94											
		95											
33	000	96	1	2		1			5	4			
27	061	97	12	10	2	2							
24	000	98	2				1					1	
29	000	99	1										
50	000	100	1										
19	099	101					1						
19	099	102					1						
48	000	103		1									
27	061	104		1									
19	110	105		1									
19	110	106			1								
19	123	107				1					1		
19	005	108							1				
19	123	109							1				
19	036	110							1	1			
27	057	111						1					
19	099	112						1			1		
19	099	113								1			
19	099	114								1			
27	061	115									1		
12	000	116									1		
19	005	117	1							1			
		118											
		119											
		120											
		121											
		122											
		123											
		124											
		125											
		126											
		127											
		128											
		129											
		130											

* 1/10 subsample
X 1/5 subsample

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[illegible] 7-27-84

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LAB DATA ANALYSIS - INVERTEBRATE PITFALL TRAP SAMPLES

Project Name & No.: Rio Blanco 83 Site Name & No.: North P-J 3(c)

Collection Date(s): May 1976 Vegetation Type: Pinyon-Juniper

Pitfall Type 1/: Pitfall Grid Sorting Means: Hand

Taxonomist & Date Started: DB 6/22/76 Species List Ref. No.: 83 C.P1

Order Number	Family Number	Species Ref. Number	Day Number 2/ 1	2	3	4	5	6	7	8	9	10	Not Class	Total
			Sample Number 455	460	465	487	519	542	566	521	570	585		
		1												
		2												
		3												
		4												
27	061	5					1	1				1	A	
27	061	6						1					A	
		7												
		8												
19	042	9									1	1	A	
		10												
		11												
		12												
27	061	13	3			1	3	3	1	1	1	1	A	
		14												
19	047	15										2		
		16												
		17												
		18												
		19												
27	061	20		1	2		2		1		1		A	
		21												
		22												
		23												
		24												
		25												
27	061	26			1						3		A	
		27												
		28												
		29												
		30												

1/ Grid or line 2/ Not applicable for pitfall lines

QA Check: [illegible] 7-27-76

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LAB DATA ANALYSIS - INVERTEBRATE PITFALL TRAP SAMPLES

Project Name & No.: 83 Rio Blanco — Site Name & No.: UPLAND SAGE 4(D)

Collection Date(s): MAY 1926 — Vegetation Type: UPLAND SAGE

Pitfall Type 1/: PITFALL GRID — Sorting Means: HAND

Taxonomist & Date Started: DB 6/23/26 — Species List Ref. No.: 83DIF

Order Number	Family Number	Species Ref. Number	Day Number 2/ 1	2	3	4	5	6	7	8	9	10	Total	
			Sample Number 453	458	463	484	525	540	564	569	576	588		
		1												
		2												
		3												
		4												
		5												
		6												
24	020	7	1	2	2								I	H
27	061	8		3			2			10	14	10	A	O
27	061	9	13	10	3	16	12	4	6	25	30	14	A	O
27	061	10	8	1	1	8	3	5	2	13	19	11	A	O
27	061	11	1										A	O
27	061	12									4	2	A	O
		13												
		14												
		15												
19	123	16		1			1		1			1	A	H
		17												
		18												
		19												
		20												
27	061	21		1		1	1			3	3		A	O
		22												
27	061	23		4		3	1	4		16	17	17	A	O
		24												
		25												
		26												
		27												
19	099	28							1				A	S
		29												
		30												

1/ Grid or line 2/ Not applicable for pitfall lines

7-27-71

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Project: 83 Rio Blanco Site: UPLAND SAGE 40 Sp. List Ref. No.: 83DPF Date: MAY '83

Order Number	Family Number	Species Ref. Number	Day Number 1 (Sample Number 453)	2 (459)	3 (463)	4 (484)	5 (515-540)	6	7 (564)	8 (569)	9 (576)	10 (588)	Total
		1											
		2											
		3											
		4											
		5											
		6											
19	047	37										1	
		8											
		9											
		40											
		1											
		2											
19	026	43						1	1			2	
		4											
		5											
		6											
		7											
		8											
		9											
		50											
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		60											
		1											
04	000	62	359	12	137	239	335	4	64	51	27	34	
35	000	63	2	2	3	24	60	9	9	44	51	42	
07	000	64									1		
24	000	65				1			1	5	3	3	
27	000	66		1			2		1	7	19	27	
		7											
17	000	68				3				5		8	
18	000	69		2		6	2	3	1	3	3		
		70											
		1											
27	001	72	2	1		4	2	2	1	1	1	5	
		3											
		4											
25	000	75	9	3	4	6	3	4					
		6											
02	000	77							1				
		8											
		9											
		80											

RBOSP PROGRESS REPORT

7-27-83

ecology consultants, inc.

Project: 83 Tia Pelanco Site: Upland Sage 4(P) Sp. List Ref. No.: 830 PE Date: May '84

Ord Number	Family Number	Species Ref. Number	Day Number 1	2	3	4	5	6	7	8	9	10	Total
			Sample Number 453	459	463	481	475	490	564	569	506	581	
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		90											
33	000	91	4	4	1	9	7	2	4	12	10	8	
26	000	92	1										
19	026	93		1									
27	061	94		1									
19	123	95				2		1	1	1		1	
27	061	96				2					1		
27	061	97				1							
19	099	98							1				
27	061	99						2					
19	026	100						1	1				
19	110	101						1					
19	123	102								1			
19	049	103										1	
19	110	104										1	
19	123	105										1	
19	005	106							1				
		7											
		8											
		9											
		0											
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		0											
		1											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		0											

83C.11.5.1

ecology consultants, inc.

LAB DATA ANALYSIS - INVERTEBRATE PITFALL TRAP SAMPLES

83.C.11.3.1

Project Name & No.: 83 Rio Blanco — Site Name & No.: MIXED BRUSH 5

Collection Date(s): MAY 1976 — Vegetation Type: MIXED BRUSH

Pitfall Type 1/: PITFALL GRID — Sorting Means: HAND

Taxonomist & Date Started: DB 6/25/76 — Species List Ref. No.: 83 5 I-F

Order Number	Family Number	Species Ref. Number	Day Number 2/ 1	2	3	4	5	6	7	8	9	10	Total	
			Sample Number 454	459	464	488	516	541	565	570	577	586		
27	061	1	1					2	6	2	5	3	A	C
		2												
27	061	3							1				A	C
		4												
27	061	5						1		1			A	C
27	061	6							1	2			A	C
		7												
		8												
19	123	9						1					A	H
		10												F
		11												
		12												
		13												
		14												
		15												
		16												
		17												
27	061	18				1		1	3	6	1	3	A	C
19	005	19					2			2	3		A	I
		20												
		21												
		22												
		23												
		24												
		25												
		26												
		27												F
		28												
		29							BROSP PROCESS REPORT					
		30												

1/ Grid or line 2/ Not applicable for pitfall lines

QA Check: Lynn 7-27-76.

ecology consultants, inc.

Project: 83 Rio Blanco Site: MIXED BRUSH 2 Sp. List Ref. No.: 835 PF Date: May '76

Or Number	Family Number	Species Ref. Number	Day Number 1 (Sample Number 454)	2 (459)	3 (464)	4 (468)	5 (516)	6 (541)	7 (565)	8 (520)	9 (572)	10 (586)	Total
		31											
		2											
		3											
		4											
27	061	35									1		A O
		6											
		7											
		8											
		9											
		40											
		1											
19	099	42								1			A
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		50											
		1											
		2											
		3											
		4											
		5											
24	000 5	6				1	1	1				1	1 I H
24	020 I	7								1		3	I II
		8											
		9											
		60											
		1											
24	026 I	2										1	I
		3											
		4											
		5											
		6											
02	000	67					1	1	1	7	12	15	A C
		8											
07	000	69								3			A H
17	000	70			1			1	1				4
35	000	71	4	1	2	4	3	12	23	12	16	5	F II
04	000	72	51	7	26	15	11	38	54	12	20	7	A S
		3											
25	000	74	1			2		6	2				F 4
		5											
		6											
34	000	77	3				1				1		A
		8											
19	000 1	9					1				1		E
		0											

RBOSP PROGRESS REPORT

142/102975-2

7-27-71

ecology consultants, inc.

Project: 83 Rio Blanco Site: Mine Bench 5 Sp. List Ref. No.: 835 PF Date: MAY '83

Order Number	Family Number	Species Ref. Number	Day Number 1	2	3	4	5	6	7	8	9	10	Total
			Sample Number 454	459	464	488	516	541	565	570	592	596	
18	000	81	1	3			3	3	1	4	3		
29	000	82				1			1				
		83											
		84											
		85											
19	108	86								1			
		87											
		88											
33	000	89	5	3	2	8	10	5	10	9	13	8	
19	099	90	1										
19	047	91				1			1	1		4	
19	026	92					1						
26	000	93							1				
19	099	94							2	1			
19	005	95							1				
19	043	96							1	4			
19	084	97								1			
19	013	98								1			
19	123	99									2		
		00											
		01											
		02											
		03											
		04											
		05											
		06											
		07											
		08											
		09											
		10											
		11											
		12											
		13											
		14											
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		16											
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		29											
		30											
		31											
		32											
		33											
		34											
		35											
		36											
		37											
		38											
		39											
		40											

RBOSP PROGRESS REPORT

83.C.113.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: GREASEWOOD 1 (A)

Collection Date(s): MAY '76 Veg. Type or Plant Sp.: GREASEWOOD - BARREN

Sampling Means LITTER D VAC Sorting Means BERLESE

Taxonomist & Date Started: DB 7/1/76 Coll Ref. No.: 83 A 1 0

Order Number	Family Number	Species Number	Coll. Ref. Number		Age Class	Feeding Class	Litter Dry Weight 274g 160g 186g 226g 196g ~~Plant Size~~ Field Log Number 494 495 496 497 498 563 B.C.									
				1												
				2												
19	123		92610	3	A	H		1								
16	000			4	A	H			2	3	2					
				5												
16	000			6		H			6	1	1					
				7												
				8												
17	000			9		H					2					
				10												
				11												
19	126			12	A	P				1						
				13												
				14												
				15												
33	065			16	A	P	1					1				
				17												
24	020			18	I	H				2						
33	020			19	A	P		1	1		1					
19	005			20	A	P	1	1	3							
27	061			21	A	O	12	1			1					
				22												
				23												
12	000			24	A	S	2	24	31		12					
				25												
				26												
				27												
				28												
50	000			29	U	U		1	1							
				30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 563 from Field Log No. 496

QA Check: Lum 7-27-76

RECEIVED

Project: 83 Rio Blanco Site: Greenwood 1(A) Ref. No.: 83 BLD Date: MAY '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 494	495	496	497	498 B.C.					
03	000		83A LD 31	A	S	3	15	3	2						
			2												
19	026		3	A	P	3			1						
			4												
			5												
			6												
27	061		37	A	O		3			2					
			8												
			9												
19	084		40	I	P			2							
19	000		41	I	U		4			1					
			2												
35	020		43	A	U	26	60	44	20	49					
04	004		44	A	S	4		1		4					
04	004		45	A	S	1	6								
04	003		46	A	S	1									
48	000		47	A	P			1		1					
27	061		48	A	O			2	3						
27	000		49	A	S			1			1				
27	022		50	A	F			1							
04	005		51	A	S			4		1					
27	061		52	A	O				2						
27	061		53	A	O				1						
25	000		54	I	U	1		1	3	1					
19	110		5	I	H					1					
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Lum 7-27-76

83.C.1132

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: South PJ 2(B)

Co[illegible]ction Date(s): MAY '76 Veg. Type or Plant Sp.: Pinyon-Juniper

Sampling Means LITTER DVAC Sorting Means BERLESE

Taxonomist & Date Started: DB 7/2/76 Coll. Ref. No.: 83 B 10

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight 426g 528g 734g 570g 358g ~~Plant Size~~ Field Log Number 429 488 491 483 B.C. 538									
27	061		83B10 1	A	O					2					
27	061		2	A	O					4					
			3												
04	004		4	A	S			1		16					
29	000		5	A	P/S		1		1						
12	000		6	A	S		2								
			7												
19	026		8	A	P	1		1		1					
			9												
			10												
			11												
			12												
			13												
			14												
			15												
19	015		16	I	P		3								
			17												
			18												
25	031		19	I	D		1								
33	000		20	I	P		3			2					
35	000		21	A	U	21	102	40	1	384	1				
04	003		22	A	S	26	1328	11	2	8					
16	000		23	A	H	16	3								
48	000		24	A	P		1								
25	000		25	A	U		2		1	9					
?	?		26				154	251							
04	003		27	A	S			250	1039						
03	000		28	A	S			1							
04	005		29	A	S					1					
18	033		30	I	H					47					

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 538 from Field Log No. 480

QA Check: Lm 7-27-76

RBCCP PROGRESS REPORT

Page 2 of 2

Project: 83 Site: South PT (2) Ref. No.: 83 B LD Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 183
24	020		1	I	H	2
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Jcw 7-27-76

83.C 113.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: North PJ 3(C)

Co. ection Date(s): MAY 1976 Veg. Type or Plant Sp.: Pinyon - Juniper

Sampling Means LITTER D-VAC Sorting Means BERLESE

Taxonomist & Date Started: DB 7/6/76 Call Ref. No.: 83C LD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight 1308g 703g 1124g 1244g 1608g Plant Size Field Log Number 468 469 470 471 472 B.C. 539									
27	061		83C LD 1	A	O	1					3				
27	061		2	A	O			17							
			3												
			4												
			5												
			6												
19	005		7	I	P			1		1	1				
			8												
			9												
			10												
			11												
			12												
[illegible]	020		13	A	PS	1									
30	000		14	A	P				1						
			15												
04	004		16	A	S					1					
04	003		17	A	S	3	41	4	3	11					
			18												
29	000		19	P	P	4	3	1			2				
			20												
			21												
			22												
			23												
			24												
			25												
33	000		26	I	P	1									
			27												
			28												
			29												
24	000		30	I	11	1	2		1	1					

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 539 from Field Log No. 469

QA Check: hmm 7-27-76

RBOSP PROGRESS REPORT

Project: 83 Rio Blanco Site: North PJ 3(c) Ref. No.: 83 C LD Date: MAY 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 468	469	470	471	472
03	000		83C1031	A	S	8	6	3		
35	000		32	A	S	1	7	5	1	1
25	000		33	M	S	2	5			1
04	004		34	M	S		10	2		
17	000		35		S		1			
16	000		36	S	H		5	1		
?	?		37					7	2	4
33	020		8	A	P	1	4			
			9							
			0							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							
			1							
			2							
			3							
			4							
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			6							
			7							
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			9							
			0							
			1							
			2							
			3							
			4							
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			7							
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			0							
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			3							
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			6							
			7							
			8							
			9							
			0							

RBSP PROGRESS REPORT

Lynn 7-27-76

83C 1132

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: UPLAND SAGE 4(2)

Collection Date(s): MAY 1976 Veg. Type or Plant Sp.: SAGE

Sampling Means LITTER D-VAC Sorting Means BERLESE

Taxonomist & Date Started: DR 7/7/76 Call Ref. No.: 83 D LD

Order Number	Family Number	Species Number	Coll. Ref. Number		Age Class	Feeding Class	Litter Dry Weight 110g 160g 188g 64g 150g ~~Plant Size~~ Field Log Number 508 509 512 511 512 562 B.C									
27	061		83DLD	1	A	O				1	1					
27	061			2	A	O		6	11							
27	061			3	A	O	3		4	1	1					
27	061			4	A	O	1	1								
				5												
19	005			6	A	P	1									
				7												
				8												
				9												
50	000			10	A	P			2		1					
				11												
				12												
				13												
19	099			14	A	S	1									
				15												
				16												
17	000			17		U			1		2					
19	043			18	A	P	1									
				19												
				20												
				21												
				22												
24	020			23	I	H	4									
24	000			24	I	H		2		2						
				25												
				26												
33	020			27	A	P	1			2		1				
				28												
				29												
				30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 562 from Field Log No. 511

QA Check: [illegible] 7-27-76

RBOSP PROGRESS REPORT

Project: 83 Rio Blanco Site: UPLAND SAGE 4(01) Ref. No.: 83DLD Date: MAY 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 508	509	510	511	512
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
35	000		83DLD 39	A	U	4	3	1		
27	061		40	A	D		1	13	5	
04	003		41	A	S		3	1	18	
04	003		42	A	S			38		
29	000		43	A	U			1	1	1
04	004		44	A	S			1	1	
16	000		45	A	H				2	
19	026		46	A	P				1	
29	000		47	A	U				1	
19	108		8	I	H		2			
19	005		9	I	P		3			
			0							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							
			1							
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			5							
			6							
			7							
			8							
			9							
			0							

225-216076

Lum 7-27-76

83.C.11.3.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: Mixed Brush (5)

Collection Date(s): May 1976 Veg. Type or Plant Sp.: mixed brush

Sampling Means Litter D-Vac Sorting Means Berlese

Taxonomist & Date Started: DB 7/8/76 Call Ref. No.: 83 I C O

Order Number	Family Number	Species Number	Coll. Ref. Number		Age Class	Feeding Class	Litter Dry Weight 630g 562g 300g 330g 310g ~~Plant Size~~ Field Log Number 530	537	532	523	534	575 B.C.				
50	000		83IC	1	A	P	2	1	2	2	4					
29	000			2	A	P	3		1	4	2					
17	000			3	A	U	4									
27	061			4	A	O	3	8	1	2						
				5												
				6												
				7												
27	061			8	A	O	8	5								
				9												
18	000			10	A	H				5						
				11												
				12												
				13												
17	000			14		U				1						
19	123			15	A	H					2					
19	123			16	A	H					1					
25	000			17	I	U	1									
				18												
19	026			19	A	P		2								
				20												
19	005			21	A	P			1							
				22												
19	000			23	I	U	1	5		2	4					
				24												
33	065			25	A	P			1							
				26												
				27												
				28												
12	020			29	A	S				1						
24	000			30	I	H		1								

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 575 from Field Log No. 533

QA Check: Lum 7-27-76

RBOSP PROGRESS REPORT

Project: 83 Rio Blanco Site: MIXED BRUSH 5 Ref. No.: 83 5 LD Date: MAY 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 530	531	532	533	534	535
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			40								
			1								
			2								
			3								
			4								
			5								
			6								
35	000		83 5 LD 47	A	U	237	138	323	129	117	
02	000		48	A	S	1					
03	000		49	A	S	2	1		1		
04	003		50	A	S	6	4	3	4		
04	004		51	A	S	30	30		10	9	
04	003		52	A	S		12	1972	27	97	
?	?		53				12				
19	026		54	A	P			1		5	
27	000		55	A	U			2		1	
25	000		56	A	U			1			
27	052		7	A	U	2				2	
27	046		8	I	U		3	1			
19	110		9	I	H					1	
25	000		0	I	U					1	
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Sums 7-27-76

R3.C.11.3.7

LAB DATA ANALYSIS - MALAISE TRAP SAMPLES

Project Name & No.: Rio Blanco 83 Site Name & No.: Greasewood-sage 1 (A)

Collection Date(s): May 76 Vegetation Type: Sage-rabbitbrush

Sorting Means: none Species List Ref. No.: 83AM

Taxonomist & Date Started: BEL 4 May 76

Order Number	Family Number	Species Ref. Number	Sample Number: Age Class / Feeding Class 583		Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
25	045	1	A	F		9									
		2													
		3													
25	095	4	A	U		58									
		5													
25	042	6	A	S		6									
25	044	7	A	U		3									
25	095	8	A	U		8									
25	081	9	A	F		1									
		10													
		11													
		12													
		13													
25	103	14	A	F		3									
25	103	15	A	F		1									
25	045	16	A	F		1									
		17													
25	103	18	A	F		3									
25	035	19	A	P		17									
		20													
		21													
		22													
25	087	23	A	U		3									
25	064	24	A	F		3									
		25													
25	002	26	A	F		1									
27	068	27	A	F		30									
27	068	28	A	F		28									
27	015	29	A	F		1									
27	015	30	A	F		1									

1/ Total numbers in subsample

2/ Estimated total in sample

QA Check: Lum 7-27-76

RBOSP PROGRESS REPORT

ECI ecology consultants, inc.

Project: 83 Site: Greenwood A,1 Sp. List Ref. No.: 83AM Date: May 76

Order Number	Family Number	Species Ref. Number	Age Class	Feeding Class	Subsample Size A	Subsample Size B	Subsample Size A	Subsample Size B	Subsample Size A	Subsample Size B	Subsample Size A	Subsample Size B	Subsample Size A	Subsample Size B	Total
27	015	31	A	F		4									
		2													
27	049	3	A	F		1									
27	014	4	A	F		2									
		5													
		6													
		7													
		8													
25	023	9	A	U		89									
		40													
25	023	1	A	U		43									
		2													
		3													
		4													
25	014	5	A	F		91									
		6													
28	020	7	A	F		14									
		8													
		9													
		50													
19	084	1	A	P		27									
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
18	016	60	A	H		9									
24	000	1	A	F		16									
		2													
27	015	3	A	F		13									
		4													
		5													
27	014	6	A	F		2									
		7													
		8													
		9													
		70													
		1													
27	071	2	A	F		2									
27	070	3	A	F		1									
		4													
		5													
27	015	6	A	I		1									
27	032	7	A	F		1									
		8													
		9													
		80													

RESOSP PROGRESS REPORT

bmw 7-27-76

ecology consultants, inc.

Project: 83 Site: Greenwood A,1 Sp. List Ref. No.: 83AM Date: May 76

Order Number	Family Number	Species Ref. Number	Age Class	Feeding class	Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
		81													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
19	084	9	A	P		1									
19	086	90	A	H		1									
		1													
		2													
		3													
		4													
27	062	5	A	F		1									
27	014	6	A	F		3									
27	014	7	A	F		3									
		8													
		9													
		100													
		1													
		2													
		3													
25	095	4	A	U		1									
		5													
		6													
		7													
		8													
		9													
		110													
		1													
		2													
		3													
		4													
27	000	5	A	F		1									
19	084	6	A	P		4									
		7													
17	008	8	A	U		1									
		9													
18	000	120	A	H		4									
		1													
		2													
		3													
		4													
		5													
27	065	6	A	F		2									
		7													
		8													
		9													
		130													

140/102975-2

bmw 7-27-76

ecology consultants, inc.

Page 4 of 5

Project: 83 Site: Greenwood A, 1 Sp. List Ref. No.: 83AM Date: May 76

Order Number	Family Number	Species Ref. Number	Subsample Size A	B	A	B	A	B	A	B	A	B	A	B	Total
		131													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		140													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		150													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
25	081	9	A	F		1									
25	081	160	A	F		1									
25	083	1	A	F		6									
		2													
		3													
		4													
		5													
		6													
		7													
27	066	8	A	F		2									
		9													
		170													
		1													
		2													
27	014	3	A	F		2									
		4													
		5													
		6													
		7													
		8													
		9													
		190													

PROGRESS REPORT

140/102975-2

bm 7-27-76

ecology consultants, inc.

Project: 83 Site: Greenwood 1, A Sp. List Ref. No.: 83AM Date: May 76

Order Number	Family Number	Species Ref. Number	Page Class A	Feeding Class B	Subsample Size A	B	A	B	A	B	A	B	A	B	Total
		181													
19	084	2	A	P		4									
19	000	3	A	G		10									
27	071	4	A	F		3									
27	071	5	A	F		2									
27	011	6	A	F		1									
27	070	7	A	F		1									
27	061	8	A	O		2									
27	015	9	A	F		4									
27	015	190	A	F		1									
27	014	1	A	F		1									
27	022	2	A	F		1									
27	101	3	A	S		2									
		4													
		5													
		6													
		7													
		8													
		9													
		200													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													

RROSP PROCESSED REPORT

7-77-77

83.C.11.37

2, B

LAB DATA ANALYSIS - MALAISE TRAP SAMPLES

Project Name & No.: Rio Blanco 83 Site Name & No.: Pinyon-Juniper / South Slope

Collection Date(s): May 76 Vegetation Type: P-J

Sorting Means: Hand Species List Ref. No.: EIBM

Taxonomist & Date Started: BEL June 76

574 Sample Number

Order Number	Family Number	Species Ref. Number	Age Class A[1]	Feeding Class B[2]	Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
		1													
		2													
25	035	3	A	P		4									
25	045	4	A	F		1									
25	045	5	A	F		3									
		6													
25	103	7	A	F		3									
		8													
		9													
		10													
25	103	11	A	F		1									
25	095	12	A	U		8									
25	031	13	A	F		44									
25	103	14	A	F		1									
		15													
25	031	16	A	F		12									
24	000	17	A	F		18									
24	000	18	A	F		22									
25	095	19	F	U		6									
		20													
25	103	21	A	F		1									
27	015	22	A	F		1									
		23													
		24													
27	015	25	A	F		~									
		26													
		27													
		28													
27	068	29	A	F		1									
27	071	30	A	F		2									

[1] Total numbers in subsample

[2] Estimated total in sample

QA Check: Lum 7-27-76

RBOSP PROGRESS REPORT

ECI ecology consultants, inc.

ecology consultants, inc.

Project: 83 Site: South P. J. Sp. List Ref. No.: 83 P M Date: May 76

Order Number	Family Number	Species Ref. Number	Nac Class	Feeding Class	Subsample Size										Total
			A	B	A	B	A	B	A	B	A	B	A	B	
21	068	31	A	F		2									
21	067	2	A	F		1									
		3													
		4													
		5													
27	015	6	A	F		3									
		7													
25	020	8	A	F		4									
		9													
25	023	40	A	U		34									
25	019	1	A	F		2									
		2													
		3													
25	042	4	A	F		1									
25	044	5	A	U		1									
		6													
		7													
		8													
		9													
		50													
		1													
19	042	2	A	P		1									
		3													
18	016	4	A	H		1									
18	016	5	A	H		29									
		6													
19	084	7	A	P		2									
		8													
		9													
		60													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		70													
		1													
19	030	2	A	S		1									
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		80													

140/102975-2

Ann 7-27-76

ecology consultants, inc.

Project: 83 Site: South P-I (2) Sp. List Ref. No.: 83BM Date: May 76

Order Number	Family Number	Species Ref. Number	Age Class / Feeding type		Subsample Size										Total
			A	B	A	B	A	B	A	B	A	B	A	B	
		81													
		2													
		3													
		4													
25	064	5	A	U		3									
		6													
		7													
		8													
		9													
		90													
27	004	1	A	H		1									
		2													
		3													
		4													
		5													
		6													
27	015	7	A	F		4									
19	000	8	A	H		10									
19	000	9	A	H		1									
		100													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		110													
24	003	1	A	F		7									
24	003	2	A	F		1									
24	031	3	A	F		2									
24	013	4	A	F		1									
19	016	5	A	H		3									
19	000	6	A	U		12									
19	108	7	A	H		1									
27	071	8	A	F		6									
27	071	9	A	F		2									
27	071	120	A	F		1									
27	071	1	A	F		2									
27	070	2	A	F		1									
27	071	3	A	F		2									
27	067	4	A	F		1									
27	067	5	A	F		1									
27	067	6	A	F		1									
27	068	7	A	F		3									
27	068	8	A	F		1									
27	062	9	A	F		1									
27	015	130	A	F		1									

Sam 7-27-76

ecology consultants, inc.

Project: '83 Site: South P-I, 2 Sp. List Ref. No.: 83BM Date: May 11,

Order Number	Family Number	Species Ref. Number	Subsample Size A	B	A	B	A	B	A	B	A	B	A	B	Total
27	015	131	A	F		1									
27	015	2	A	F		1									
27	015	3	A	F		4									
27	014	4	A	F		1									
27	014	5	A	F		1									
27	014	6	A	F		2									
27	047	7	A	F		1									
27	018	8	A	F		2									
27	029	9	A	P		1									
25	038	140	A	F		3									
18	033	1	A	U		6									
25	042	2	A	S		2									
25	013	3	A	P		3									
25	103	4	A	F		6									
25	083	5	A	F		6									
25	061	6	A	S		2									
25	039	7	A	P		1									
25	039	8	A	P		1									
		9													
		150													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		160													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		170													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		180													

Lum 7-27-76

83.C.1137

3 (C)

LAB DATA ANALYSIS - MALAISE TRAP SAMPLES

Project Name & No.: Rio Blanco 83 Site Name & No.: North Slope pinyon-Juniper

Collection Date(s): May 76 Vegetation Type:

Sorting Means: none Species List Ref. No.: 83CM

Taxonomist & Date Started: BEK 30 June 76

Order Number	Family Number	Species Ref. Number	Age Class	Feeding class	field log no. #584	Sample Number / Subsample Size								Total
			A[1]	B[1]	&	#	A	B	A	B	A	B	A	B	
27	071	1	A	F		6									
27	071	2	A	F		5									
27	071	3	A	F		2									
27	071	4	A	F		11									
27	071	5	A	F		31									
		6													
		7													
		8													
27	068	9	A	F		2									
		10													
21	067	11	A	F		14									
		12													
27	015	13	A	F		11									
27	014	14	A	F		1									
27	014	15	A	F		10									
27	014	16	A	F		9									
		17													
		18													
		19													
		20													
		21													
19	110	22	A	H		1									
24	000	23	A	F		28									
		24													
18	003	25	A	H		99									
25	035	26	A	P		6									
		27													
25	031	28	A	F		58									
		29													
		30													

1/ Total numbers in subsample

2/ Estimated total in sample

QA Check: Sam 7-27-76

RBOSP PROGRESS REPORT

ecology consultants, inc.

ecology consultants, inc.

Project: 83 Site: 3(C) Sp. List Ref. No.: 83CM Date: May 75

Order Number	Family Number	Species Ref. Number	Age class A	Feeding class B	Subsample Size A	B	A	B	A	B	A	B	A	B	Total
25	020	31	F	F		79									
25	225	2	A	U		100									
		3													
25	042	4	A	S		8									
		5													
		6													
		7													
		8													
		9													
		40													
		1													
		2													
		3													
27	068	4	A	F		1									
		5													
		6													
		7													
		8													
		9													
		50													
		1													
5		2													
		3													
		4													
		5													
		6													
		7													
27	065	8	A	F		4									
		9													
		60													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		70													
		1													
25	044	2	A	U		5									
25	103	3	A	F		15									
		4													
25	035	5	A	U		6									
25	035	6	A	U		1									
		7													
		8													
		9													
		80													

RECEIVED FWPCA REGION REPORT

140/102975-2

Irm 7-27-71

ecology consultants, inc.

Project: 83 Site: 3 (C) Sp. List Ref. No.: 83CH Date: May 76

Order Number	Family Number	Species Ref. Number	Age class X	Feeding class X	Subsample Size A	B	A	B	A	B	A	B	A	B	Total
25	061	81	A	S		1									
		2													
		3													
		4													
		5													
		6													
		7													
		8													
19	108	9	A	H		6									
		90													
		1													
		2													
		3													
19	084	4	A	P		1									
		5													
		6													
		7													
		8													
		9													
		100													
		1													
		2													
25	095	3	A	U		4									
		4													
		5													
		6													
		7													
		8													
17	060	9	A	U		9									
18	000	110	A	H		17									
27	065	1	A	F		2									
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
27	029	120	A	P		2									
		1													
		2													
		3													
		4													
19	084	5	A	P		3									
19	084	6	A	P		2									
19	084	7	A	P		1									
19	084	8	A	P		1									
19	084	9	A	P		3									
19	084	130	A	P		1									

140/102975-2

Ann 7-27-76

ecology consultants, inc.

Project: 93 Site: 3 (C) Sp. List Ref. No.: 83CM Date: May 76

Order Number	Family Number	Species Ref. Number	Age class	Feeding class	Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
19	110	131	A	H		8									
19	043	2	A	P		4									
19	000	3	A	HC		15									
18	033	4	I	H		4									
18	033	5	A	-		17									
22	003	6	A	P		3									
22	009	7	A	P		2									
27	067	8	A	F		6									
27	071	9	A	F		5									
27	068	140	A	F		12									
27	067	1	A	F		6									
27	068	2	A	F		6									
27	070	3	A	F		6									
27	067	4	A	F		5									
27	067	5	A	F		1									
27	071	6	A	F		4									
27	071	7	A	F		1									
27	015	8	A	F		3									
27	015	9	A	F		6									
27	032	150	A	F		2									
27	029	1	A	P		6									
27	029	2	A	P		6									
25	038	3	A	F		2									
25	038	4	A	F		1									
25	103	5	A	F		2									
25	103	6	A	F		2									
25	103	7	A	F		4									
25	015	8	A	U		1									
		9													
		160													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													

REDUCTION CHECKS IN REPORT

Ben 7-27-76

83.C.1137

LAB DATA ANALYSIS - MALAISE TRAP SAMPLES

Project Name & No.: Rio Blanco 83 Site Name & No.: Upland Sage (Site 4) (

Collection Date(s): May 1976 Vegetation Type: mixed brush

Sorting Means: None Species List Ref. No.: 83D M

Taxonomist & Date Started: BEK 1 June 76

Order Number	Family Number	Species Ref. Number	Age Class A 1/	Feeding Class B 2/	Sample Number 581 Subsample Size None A	B	A	B	A	B	A	B	A	B	Total
25	045	1	A	F		3									
25	103	2	A	F		7									
27	071	3	A	F		2									
		4													
27	015	5	A	F		4									
		6													
		7													
		8													
		9													
18	016	10	A	H		3									
		11													
		12													
		13													
		14													
24	000	15	A	F		31									
24	003	16	A	F		1									
		17													
25	014	18	A	F		16									
25	020	19	A	F		9									
25	020	20	A	F		7									
25	023	21	A	U		7									
		22													
		23													
		24													
		25													
		26													
		27													
		28													
		29													
		30													

1/ Total numbers in subsample

2/ Estimated total in sample

QA Check: Lorn 7-27-76

RBOSP PROGRESS REPORT

Project: 83 Site: Upland Sec 2 Sp. List Ref. No.: 83DM Date: May 7

Order Number	Family Number	Species Ref. Number	Age class	Feeding class	Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
21	015	31	A	F		4									
21	068	2	A	E		4									
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		40													
		1													
18	070	2	A	H		3									
17	000	3	A	U		4									
19	108	4	A	U		6									
		5													
		6													
		7													
		8													
		9													
		50													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		60													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		70													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		80													

Mm 7-27-76

ECI
ecology consultants, inc.

Project: 83 Site: upstream 4D Sp. List Ref. No.: 83DM Date: May 77

Order Number	Family Number	Species Ref. Number	Age Class	Feeding Class	Subsample Size A	Subsample Size B	A	B	A	B	A	B	A	B	Total
		81													
		2													
		3													
		4													
25	103	5	A	F		27									
		6													
		7													
25	095	8	A	U		2									
25	095	9	A	U		90									
25	095	90	A	U		5									
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		100													
25	019	1	A	F		1									
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		110													
		1													
		2													
25	042	3	A	S		1									
		4													
		5													
		6													
		7													
		8													
		9													
		120													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		130													

Jan. 1977

ECI ecology consultants, inc.

Project: 43 Site: Upland Cove D, 4 Sp. List Ref. No.: EDM Date: May 76

Order Number	Family Number	Species Ref. Number	Mgt Class	Trading Class	Subsample Size										Total
					X	B	A	B	A	B	A	B	A	B	
19	107	131	A	H		3									
19	074	2	A	P		4									
27	071	3	A	F		2									
27	071	4	A	F		4									
27	071	5	A	F		1									
27	071	6	A	F		1									
27	068	7	A	F		3									
27	068	8	A	F		1									
27	070	9	A	F		1									
27	068	140	A	F		1									
27	067	1	A	F		1									
27	067	2	A	F		1									
27	061	3	A	O		4									
27	065	4	A	F		2									
27	065	5	A	F		1									
27	015	6	A	F		1									
27	015	7	A	F		1									
27	051	8	A	F		1									
27	014	9	A	F		1									
25	035	150	A	P		2									
25	033	1	A	F		1									
25	031	2	A	F		1									
25	031	3	A	F		1									
25	013	4	A	P		2									
25	033	5	A	F		23									
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													
		1													
		2													
		3													
		4													
		5													
		6													
		7													
		8													
		9													
		0													

140/102975-2

Sum 7-27-76

83.C.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: Mixed brush (5)

Collection Date(s): May 1976 Veg. Type or Plant Sp.: " "

Sampling Means Malaise Sorting Means none

Taxonomist & Date Started: BEK 21 July 76 Coll Ref. No.: 8354

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 582
25	045		1	A	F	1
24	000		835 M 2	A	F	80
27	067		3	A	F	2
27	015		4	A	F	5
			5			
27	015		6	A	F	1
27	014		7	A	F	2
			8			
19	047		9	A	H	6
			10			
			11			
			12			
			13			
25	014		14	A	F	20
25	014		15	A	F	30
25	023		16	A	U	15
			17			
			18			
27	029		19	A	P	2
			20			
			21			
			22			
			23			
			24			
25	042		25	A	S	6
			26			
25	064		27	A	U	4
			28			
25	095		29	A	U	26
25	095		30	A	U	18

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: LMW 7-27-76

REPORT

Project: 83 Site: Mixed brush (S) Ref. No.: 835 M Date: ~~21 July 76~~ May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			51			
			2			
			3			
			4			
			5			
27	071		6	A	F	2
			7			
			8			
			9			
			40			
27	015		1	A	F	1
27	015		2	A	F	1
			3			
27	015		4	A	F	5
			5			
			6			
27	015		7	A	F	1
			8			
			9			
			50			
			1			
			2			
27	014		3	A	F	5
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
25	002		80	A	F	5

RECEIVED

Form 7-27-76

Project: 83 Site: Mixed brush Ref. No.: 835M Date: May 71

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 582
25	002		81	A	F	7
			2			
			3			
			4			
			5			
25	044		6	A	U	3
			7			
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
27	014		6	A	F	6
			7			
			8			
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
			1			
			2			
19	084		3	A	P	8
19	084		4	A	P	4
19	084		5	A	P	3
19	108		6	A	H	6
27	071		7	A	F	1
27	071		8	A	F	1
27	067		9	A	F	1
27	060		120	A	F	4
27	007		1	A	F	1
27	007		2	A	F	1
27	015		3	A	F	6
27	015		4	A	F	4
27	032		5	A	F	1
25	035		6	A	P	11
25	031		7	A	I	5
25	034		8	A	F	2
25	101		9	A	S	1
			130			

Lum 7-27-71

83C:11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: North PJ (3)

Collection Date(s): May 76 Veg. Type or Plant Sp.: PIED

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: BEK 22 July Coll Ref. No.: '83 C AS Pin

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			547
33	079		2	A	P	1
33	077		3	A	P	1
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
18	018		12	U	H	1
			13			
			14			
			15			
			16			
			17			
			18			
27	061		19	A	O	1
			20			
			21			
			22			
27	029		23	A	P	1
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 7-27-76

RBOSP PROGRESS REPORT

Project: <13 Site: North PJ (3) Ref. No.: 83C 15 P.n Date: 11/4/76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
27	029		9	A	P	1
			40			
18	016		1	A	F	1
19	123		2	A	H	5
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

PROGRESS REPORT

Form 7-27-76

83.C.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 83 Site Name & No.: North P-J 3

Collection Date(s): May 76 Veg. Type or Plant Sp.: Juniper (Juos)

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: PEK 22 July 76 Coll Ref. No.: 83 AS Juniper

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	~~Litter Dry Weight~~ ~~Plant Size~~ Field Log Number 550
17	024		1	I	11	27
			2			
33	079		3	A	P	1
33	077		4	A	P	1
33	047		5	A	r	5
			6			
			7			
			8			
19	123		9	A	#	1
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Jun 7-27-76

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Project: 83 Site: North PJ Ref. No.: 83C AS Jump Date: May 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 550
			31			
			2			
			3			
			4			
27	032		5	A	F	1
			6			
24	000		7	H	H	1
27	032		8	A	F	1
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

RMOSP PROGRESS REPORT

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R3.C.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: Greasewood-Edge 1(A)

Co. ction Date(s): May 1976 Veg. Type or Plant Sp.: Greasewood - Edge

Sampling Means AERIAL SWEEP Sorting Means HAND

Taxonomist & Date Started: TB 7/15/76 Call Ref. No.: 83 A AS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
17	024		8	I	H	6
			9			
19	044		10	A	P	5
			11			
			12			
25	083		13	A	F	5
			14			
33	077		15	A	P	1
33	079		16	A	P	5
16	000		17	A	H	10
16	000		18	A	H	14
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 7-27-76

RBCCP PROGRESS REPORT

Project: 63 Big Blue Site: GRASSWOOD 1(A) Ref. No.: 23 A AS Date: MAY 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
16	000		6	A	H	1
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
27	018		8	A	F	2
			9			
			10			
			1			
			12	A	U	3
			13	A	U	1
19			14	A	U	1
19			15	A	U	1
19			16	A	U	1
19			17	A	U	1
18	016		18	A	U	4
16	002		19	A	U	1
19	024		20	A	U	1

Incl 7-27-76

Project: RIO BLANCO Site: GREENWOOD 1(A) Ref. No.: 73 AAS Date: MAY 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
27	061		81	A	O	503
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

RBOSP PROGRESS REPORT

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R3.C.11. 6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: SOUTH PJ 2(A)

Collection Date(s): MAY 1976 Veg. Type or Plant Sp.: PINYON

Sampling Means AERIAL SWEEPS PINYON Sorting Means HAND

Taxonomist & Date Started: DB 7/16/76 Call Ref. No.: 83 BASP

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number -47									
			1												
19	123		X3045P2	A	H	1									
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
18	018		12	I	H	1									
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
04	005		29	U	H	1									
33	007		30	A	P	2									

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 7-27-76

RBOSP PROGRESS REPORT

2.3.10 Domestic Livestock

2.3.10.3 Results

Domestic livestock data were collected concurrently with large mammal data during flights on June 10 and August 9, 1976. Five hundred forty-three cattle were observed during the June survey and 163 cattle were observed during the August survey. Cattle observed in June were located mainly on 84 Mesa and in the bottomlands of Stake Springs Draw and Ryan Gulch. Most of the cattle observed during August were scattered throughout the higher elevations west of Tract C-a.

2.3.10.5 Domestic Livestock Raw Data

2.3.10.5 Domestic Livestock Raw Data

File No. 83C 12.31

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 183

Proj/Study 83/62 Date Flown 10 June 76 Species Domestic Livestock Survey Area RBOSP

Observers: RF CLKling LR PLKennedy Pilot/Aircraft LF Penn/Cessna 206

Start 0603 Finish 0834 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200'

Counting Conditions: Ground Cover poor Light good Air fair

Weather: Temp. 58°/55°F Wind 0/3 Cloud Cover 0/0 Analyst RFK, CLK QA Check bmw 7-14-76

Observations M	F	JUV	U	Location Transect		Notes and Comments
			3	1	bottom of Ryan Gulch	
			35	3	flat area S of Yellow Creek	
			6		top of ridge S of Ryan Gulch	
			9	4	between road & Yellow Creek	
			6		road at Yellow Creek	
			27	5	edge of Wolf Ridge	
			2		south of Stake Springs	
			1	8	by water tank on 84 mesa	
			7		end of transect	
			5	9	84 mesa road (north)	
			13		NW of 84 mesa road	
			16		bottom of Stake Springs	
			3+5	29	bottom of Road Gulch; 29 at ridge S of Stake Springs	end of transect
			2	10	road S of Stake Springs	
			13		end of transect	
			6	11	east of Stake Spring Pond	
			67	12	Stake Springs Pond and meadow	
			3 7		ridge north of Stake Springs pond Corral Gulch bottom	
			10	13	new pipeline	
			12		Stake Springs Gulch	
			8	15	N of B-3 Duck Creek	
			6		gulch E of landing strip	
			7	18	gully W of E Fk Spring Creek	
			1	2	South of S. VanHorn Gully	p-j/sagebrush ecotone
		1	8		south of confluence of Yellow Creek and N. VanHorn Gully	
			13	3	Yellow Creek	
		1	334		page total 333 ✓	

Total Animals Counted: 543

Animal Distribution:

130/060175

RBOSP PROGRESS REPORT

File No. 83 0 12 31

2 of 3

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM

Proj/Study 83/62 Date Flown 10 June 76 Species Domestic livestock Survey Area RBASP

Observers: RF CLKling LR PLKennedy Pilot/Aircraft L Paur/Cessna 206

Start 0603 Finish _____ Ave. Indicated Air Speed _____ Est. Altitude _____

Counting Conditions: Ground Cover _____ Light _____ Air _____

Weather: Temp. _____ Wind _____ Cloud Cover _____ Analyst _____ QA Check Lum 7-14-76

Observations M	F	JUV	U	Location	Notes and Comments
			1	transect 3 · north-facing slope along Yellow Creek	
			1	½ mile south of north-facing slope	
		2	2	west of south end of Stake Gully	
			2	4 ridge east of confluence of Corral Gulch and Yellow Creek	
			1	ridge ½ mile down along Yellow Creek	
		2	19	5 road on Hunk Ridge south of confluence of Corral Gulch and Yellow Creek	
			5	on road on Hunk ridge just south of the group of 16 cattle	
			2	6 ridge south of Stake Springs Draw	
			1	ridge north of Stake Springs Draw	
			5	South of Corral Gulch	
			6	in Corral Gulch	
			3	7 89 mesa – ½ mile north of road	
			2	Stake Springs Draw	
			22	8 confluence of Galloway Gulch and Ryan Gulch	
			20	in Galloway Gulch	
			1	in drainage south of Duck Creek	
		4	88	½ page total	

Total Animals Counted: 543

Animal Distribution:

RECORDS REPORT

File No. 83.C 12.5.1

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 3 of 3

Proj/Study 83/67 Date Flown 10 June '76 Species Domestic Livestock Survey Area RBASP

Observers: R _____ L _____ Pilot/Aircraft _____

Start _____ Finish _____ Ave. Indicated Air Speed _____ Est. Altitude _____

Counting Conditions: Ground Cover _____ Light _____ Air _____

Weather: Temp. _____ Wind _____ Cloud Cover _____ Analyst _____ QA Check _____

Observations M	F	JUV	U	Location	Notes and Comments
				transect	
			3	9 Second intermittent drainage south of Duck Creek	
2			13	89 mesa just South of the last group	
			2	½ mile South of the last group	
			1	pipeline north of State Springs Draw	
	2	2		State Springs Draw	
			5	Ryan Gulch	
			13	Wagonroad Gulch	
			1	10 north of where transect crosses road on 89 mesa	
			4	½ mile north of last cow sighting	
	2	2		11 Wolf Ridge - ¼ mile before road on Wolf Ridge	
			39	12 on State Springs Draw	
			9	13 South part of Landing Strip Ridge	pj/sagebrush habitat
			2	14 right fork of State Springs Draw	
			1	15 north end of transect	the cow was dead
			8	Box Elder Gulch	
			10	16 right fork of State Springs Draw	
2	4	4	103	118 page total	

Total Animals Counted: 543

Animal Distribution:

File No. 83 C 12.3.1

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 1/2

Proj/Study 83/62 Date Flown 7 Aug 76 Species Domestic Cattle Survey Area RBSP

Observers: RF CL Kling L/Sonr PL Kennedy Pilot/Aircraft Lenpaur / Cessna 206

Start 0709 Finish 0935 Ave. Indicated Air Speed 75-85 mph Est. Altitude 150-200

Counting Conditions: Ground Cover poor Light excellent Air good

Weather: Temp. 56°/66° Winds SW 4/4 Cloud Cover 0/0 Analyst PLK/CLK QA Check [illegible] 8-20

Observations Adult	F	JUV	U	Location Transect	Notes and Comments
7	5			8 - Wagonroad Gulch	greasewood-sagebrush
1				9 - Galloway Gulch	
1				13 south slope Corral/Gulch	p-j
5	3			14 Box Elder Gulch	
1				15 north-facing slope - Dead Horse Ridge	L. Peurs observation p-j/mixed brush
3	1			17 Landing Strip Ridge	
2	1			18 ridge between KU Gulch and Spruce Gulch	
2				ridge between two forks of Big Buck Creek	
2				East Fork Spring Gulch	
3	3			in Gulch at north end of transect	
5				19 north end of transect	
3				ridge between Sergo Gulch and East Fork Spring Gulch	
2				north ridge of north fork of Big Buck Creek	
4	1			ridge north of Dead Horse Ridge	
3	2			ridge North of Landing Strip Ridge	
1	1			south end of transect	
			14	9 Bottom of Ryan Gulch	
			1	9 South of Coal head	
			14	13 Bottom of Buck Creek	
45	17		31	Subtotal	

Total Animals Counted: 163

PROGRESS REPORT

Animal Distribution:

130/060175

130/060175

File No. 130.12-3.1

LARGE MAMMAL AERIAL CENSUS REPORT AND DATA SUMMARY FORM 2062

Proj/Study 83/62 Date Flown 9 Aug 78 Species Bighorn sheep Survey Area RBCSP

Observers: R _____ L _____ Pilot/Aircraft _____

Start _____ Finish _____ Ave. Indicated Air Speed _____ Est. Altitude _____

Counting Conditions: Ground Cover _____ Light _____ Air _____

Weather: Temp. _____ Wind _____ Cloud Cover _____ Analyst _____ QA Check Gaw 8-20-78

Observations M+F Adult	JUV	U	Location transect	Notes and Comments
		8	15 Log cabin in Duck Creek	
		4	17 Ridge N of Big Duck Creek	
		3	Top of Dead Horse Ridge	
		6	Dry Fork Coal Gulch	
		4	Sagebrush Hill	
		4	18 Ku Gulch	
		5	N of Big Duck Creek	
		6	Slop Gulch Bottom	
		8	19 Little Duck Creek	
		∞	Airplane Ridge + Cathedral	
			Bluffs Junction	
		4	Ridge N of end of transect	
			. . . . .	
		72	Subtotal	
45	17	161		

Total Animals Counted: 163 ✓

Animal Distribution: scattered mainly west of Trail C-a

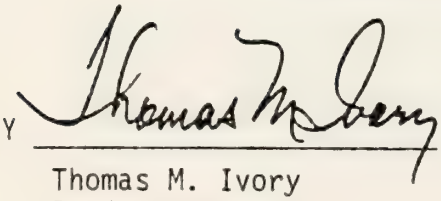
130/060175

QUARTERLY REPORT
APRIL - JUNE 1976
FOR
RIO BLANCO OIL SHALE PROJECT

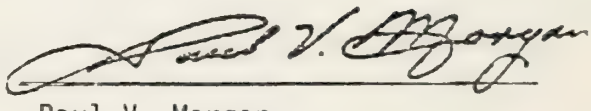
SUBMITTED TO
CDM/LIMNETICS
DENVER, COLORADO

SUBMITTED BY
ECOLOGICAL SCIENCES DIVISION
NUS CORPORATION
PITTSBURGH, PENNSYLVANIA
HOUSTON, TEXAS
AND
DENVER, COLORADO

SEPTEMBER 1976

PREPARED BY 

Thomas M. Ivory
Project Manager

APPROVED BY 

Paul V. Morgan
Vice President and
General Manager
Ecological Sciences Division

TABLE OF CONTENTS

		PAGE
Table of Contents		i
List of Tables		ii
List of Figures		iii
List of Appendices		iv
Preface		vii
2.4.0	Introduction	2.4-1
	2.4.0.1 Program Objectives	2.4-1
	2.4.0.2 Sampling Locations	2.4-1
	2.4.0.3 Schedule	2.4-1
	2.4.0.4 Report Motif	2.4-4
2.4.1	Physical Measurements and Water Chemistry	2.4-5
2.4.2	Phytoplankton	2.4-8
2.4.3	Zooplankton	2.4-10
2.4.4	Periphyton	2.4-12
2.4.5	Benthos	2.4-14
2.4.6	Sediment Chemistry	2.4-16
2.4.7	Macrophytes	2.4-18
2.4.8	Fish	2.4-20
2.4.9	Springs and Seepages	2.4-22
2.4.10	Hydrology	2.4-24
Literature Cited		2.4-26

LIST OF TABLES

TABLE		PAGE
2.4-1	Schedule for RBOSP Aquatic Baseline Data Accumulation Program	2.4-3

LIST OF FIGURES

FIGURE		
2.4-1	RBOSP Aquatic Sampling Locations	2.4-2
2.4-2	Springs and Seepage Locations	2.4-23

LIST OF APPENDICES

APPENDIX		PAGE
G-1-1	Dates of Sampling for RBOSP Aquatic Baseline Studies May - June 1976.	2.4.1.273
G-2-1	Dates of Sampling for RBOSP Aquatic Baseline Studies July - August 1976.	2.4.1.275
G-3-1	Physical and Chemical Characteristics of Streams RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.1.277
G-4-1	Physical and Chemical Characteristics of Streams RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.1.282
G-5-1	Water Chemistry Data, RBOSP Aquatic Baseline Studies May - June 1976.	2.4.1.287
G-6-1	Water Chemistry Data, RBOSP Aquatic Baseline Studies July - August 1976.	2.4.1.297
G-7-1	Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, April 1976.	2.4.2.853
G-7-2	Densities of Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, April 1976.	2.4.2.860
G-7-3	Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.2.936
G-7-4	Densities of Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.2.943
G-8-1	Zooplankton Taxa Observed during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.3.323
G-8-2	Densities of Zooplankton Observed during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.3.328
G-9-1	Dry and Organic Weight of Periphyton during RBOSP Aquatic Baseline Studies, April 1976.	2.4.4.950
G-9-2	Dry and Organic Weight of Periphyton from Artificial Substrates, RBOSP Aquatic Baseline Studies, April 1976.	2.4.4.954

LIST OF APPENDICES (Continued)

APPENDIX		PAGE
G-9-3	Chlorophyll a of Periphyton during RBOSP Aquatic Baseline Studies, April 1976.	2.4.4.956
G-9-4	Chlorophyll a of Periphyton from Artificial Substrates RBOSP Aquatic Baseline Studies, April 1976.	2.4.4.958
G-10-1	Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.960
G-10-2	Densities of Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.966
G-10-3	Dry and Organic Weight of Periphyton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1018
G-10-4	Chlorophyll a of Periphyton during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1021
G-10-5	Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1023
G-10-6	Densities of Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1026
G-10-7	Dry and Organic Weight of Periphyton from Artifical Substrates during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1039
G-10-8	Chlorophyll a of Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.4.1041
G-11-1	Macroinvertebrate Taxa Observed during RBOSP Aquatic Baseline Studies, April 1976.	2.4.5.842
G-11-2	Densities of Benthos (Macroinvertebrates) Observed during RBOSP Aquatic Baseline Studies, April 1976.	2.4.5.846
G-12-1	Macroinvertebrate Taxa Observed during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.5.936
G-12-2	Densities of Benthos (Macroinvertebrates) Observed during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.5.942

LIST OF APPENDICIES (Continued)

APPENDIX		PAGE
G-13-1	Results of Sediment Chemistry Analysis during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.6.56
G-14-1	Results of Sediment Chemistry Analysis during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.6.60
G-15-1	Results of Sediment Pesticides Analysis during RBOSP Aquatic Baseline Studies, November - December 1975.	2.4.6.64
G-16-1	List of Fish Species and Numbers Captured, White River and Lower Yellow Creek, RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.8.234
G-16-2	Fish Data, White River and Yellow Creek, RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.8.236
G-16-3	Results of Food Habit Analysis for Individual Fish RBOSP Aquatic Baseline Studies, May - June 1976	2.4.8.242
G-17-1	Stream Velocity, RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.10.23
G-18-1	Stream Velocity, RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.10.25
G-19-1	Water Quality Data, Radiological Analyses, RBOSP Aquatic Baseline Studies, February 1976.	2.4.11.37

PREFACE

On September 9, 1974, NUS Corporation was selected by the Rio Blanco Oil Shale Project (RBOSP) and Limnetics, Incorporated to perform the Aquatic Baseline Data Accumulation Program for Federal Oil Shale Tract C-a. On October 15, 1974, the aquatic sampling program was initiated; during March, 1975, NUS submitted the initial quarterly data report covering the period October 1974 - January 1975. In March, June, September, and December 1975, and in March and June 1976, data reports for inclusion in RBOSP Progress Reports 2, 3, 4, 5, 6, and 7, respectively were submitted. This data report is being submitted to Limnetics, Incorporated for inclusion in RBOSP Progress Report 8. This report includes data from the following sampling periods: November - December 1975 (sediment pesticides), February 1976 (water quality), April 1976 (benthos and phytoplankton), May - June 1976 (all disciplines), and July 1976 (physical characteristics and water chemistry.

2.4 AQUATIC STUDIES

2.4.0 Introduction

2.4.0.1 Program Objectives

The Aquatic Baseline Data Accumulation Program is designed to incorporate the environmental studies described in the Federal Register, Volume 39, Number 230, Part 3, Oil Shale Lease Environmental Stipulations and in the Tract C-a Exploratory Plan of May 1974. The overall objective for the aquatic program is to characterize the existing aquatic ecological communities in the vicinity of Tract C-a. These baseline studies will inventory the aquatic habitats which may be affected by the development of oil shale on and around Tract C-a; and will allow determination of species composition, productivity, importance to man, and relative uniqueness of aquatic habitats and species. The aquatic baseline program includes the collection and analysis of field data and an on-going survey of pertinent literature. Since most of the streams on and near Tract C-a are intermittent and since most of the permanent aquatic ecosystems occur off tract, characterization of the permanent streams will be emphasized.

2.4.0.2 Sampling Locations

The sites of the various sampling stations have been chosen to represent the broadest possible range of aquatic habitats available. A total of thirty-five sampling stations has been established. Because emphasis in this aquatic program has been given to the permanent streams near Tract C-a, 18 of the stations are located on the White River and Yellow Creek (near its confluence with the White River). The locations of the aquatic sampling stations are depicted in Figure 2.4-1. The description of each of these locations is presented in detail in Section 2.4.1 of the RBOSP Progress Report 2 and will not be repeated here. For convenience and ease of discussion, the sampling stations will be treated according to their geographical locations in the following manner: stations near the headwater areas west of Tract C-a (Stations 1 - 5); stations on Tract C-a (Stations 6 - 18); stations on Yellow Creek (Stations 19 - 22); and stations on the White River (Stations 23 - 35).

2.4.0.3 Schedule

The schedule of events for the RBOSP Aquatic Baseline Data Accumulation Program is presented as Table 2.4-1. The initial sampling was begun in October 1974; and sampling will continue through August 1976. At each sampling location, all physical, chemical, and biological samples are obtained on the same day. Appendix G-1-1 lists the dates on which samples were collected during May - June 1976, and Appendix G-2-1 lists the collections dates for the July - August 1976 sampling. During May -

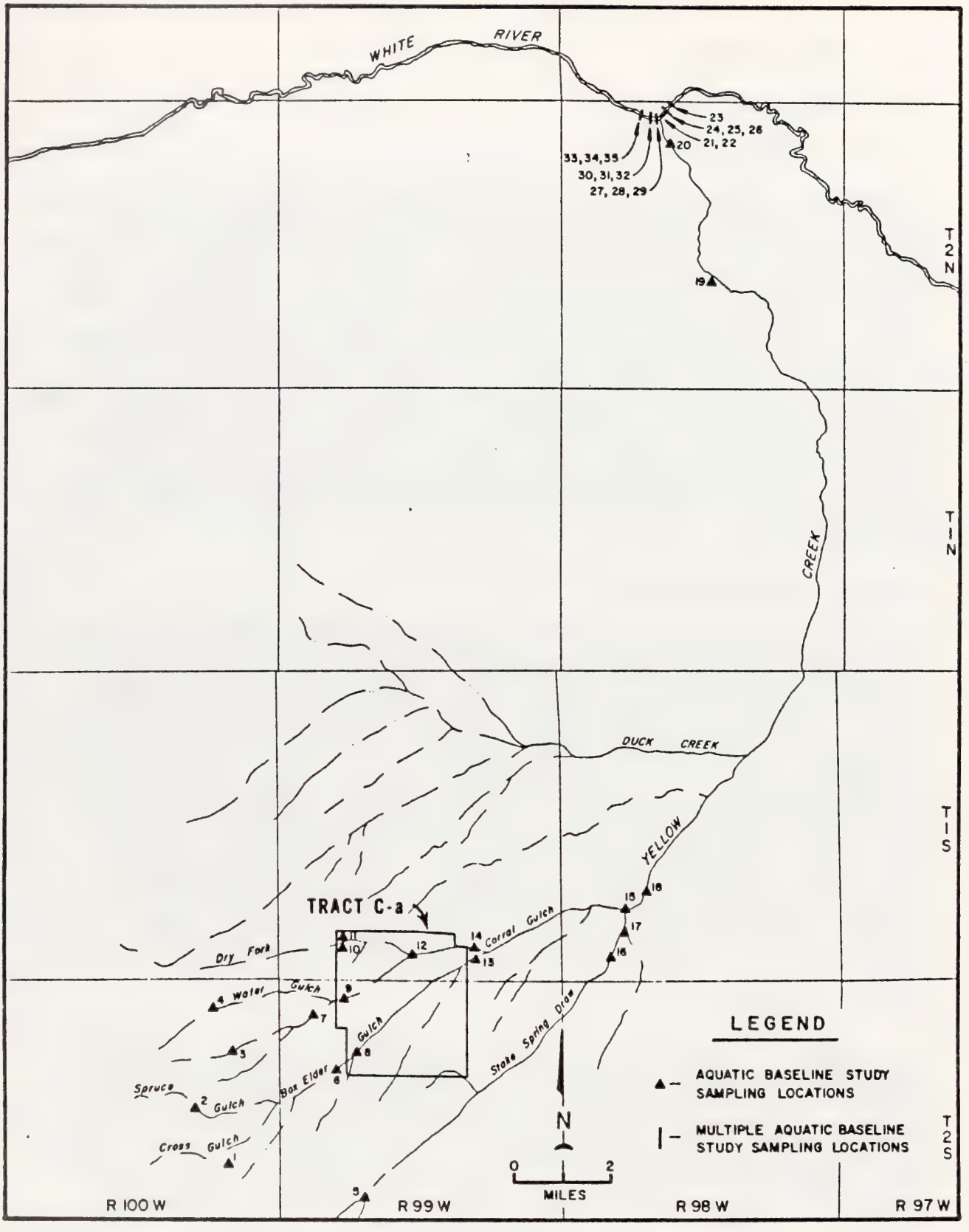


Figure 2.4-1. RBOSP Aquatic Sampling Locations

Table 2.4-1. Schedule for RBOSP Aquatic Baseline Data Accumulation Program

RIO BLANCO OIL SHALE PROJECT (GULF-STANDARD)	1975												1976											
Specification Task	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Start Date																								
Period of Performance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Start-up Time																								
Study Schedule																								
Field Studies																								
Physical	X			X	X	X	X	X	X	X	X					X		X	X	X				
Water Chemistry	X			X	X	X	X	X	X	X	X					X		X	X	X				
Plankton	X			X	X	X	X	X	X	X	X					X		X	X	X				
Periphyton	X			X	X	X	X	X	X	X	X					X		X	X	X				
Primary Prod.	X																							
Analysis					X	X	X	X	X							X		X	X	X				
Benthos				X	X	X	X	X	X	X	X					X		X	X	X				
Macrophytes	X			X	X	X	X	X	X	X	X					X		X	X	X				
Fish	X			X	X	X	X	X	X	X	X					X		X	X					
Rare and Endangered Species	X			X	X	X	X	X	X	X	X					X		X	X	X				
Spring and Seepages	X	X		X	X	X	X	X	X	X	X			X		X		X	X	X				
Miscellaneous Studies				X		X		X		X		X		X										
Lab Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Statistical Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Reports																								
Monthly	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Quarterly			X			X			X			X			X			X						
Annual																								
Draft Final																							X	
Comment Period																								X
Incorp. Comments																								X
Final Report																								X
Meetings																								
Bimonthly		X		X		X		X		X		X		X		X		X						

June 1976, samples were collected at 28 locations, and during July - August, samples were collected at 27 locations (the number of sites sampled varies with the number of sites which are dry or inaccessible).

2.4.0.4 Report Motif

The presentation of results from the sampling period included in this report has been limited to a preliminary description of the data; and in the case of the physical and chemical parameters, only a limited number of selected parameters are discussed. No formal data interpretations have been attempted.

2.4.1 Physical Measurements and Water Chemistry

During the May - June 1976 sampling period, Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible due to the high flows in the White River.

The physical and chemical data collected during the May - June 1976 sampling are presented in Appendices G-3-1 and G-5-1. A summary of selected parameters for the Yellow Creek and White River stations is presented below:

May - June 1976

Parameter	Yellow Creek	White River
Specific conductance (µmhos)	2,600 - 4,200	480 - 1,000
pH	8.0 - 9.0	7.9 - 8.3
Alkalinity, total ($CaCO_3$mg/l)	796 - 1,226	155 - 321
Chloride (mg/l)	27 - 162	7 - 22
Sulfate (mg/l)	183 - 294	27 - 36
Dissolved solids (mg/l)	2,069 - 2,781	318 - 483
Turbidity (JTU)	10 - 23	11 - 325
Dissolved oxygen (mg/l)	6.3 - 11.6	8.0 - 8.6
Temperature (^{0}C)	14 - 25	14 - 19

The physical and chemical data collected during the July - August 1976 sampling are presented in Appendices G-4-1 and G-6-1. A summary of selected parameters for the Yellow Creek and White Rivers stations from the July - August sampling is presented below:

July - August 1976

Parameter	Yellow Creek	White River
Specific conductance (µmhos)	2,800 - 4,500	850 - 3,500
pH	8.0 - 8.0	7.8 - 8.1
Alkalinity, total ($CaCO_3$mg/l)	754 - 1,664	246 - 328
Chloride (mg/l)	29 - 179	32 - 42
Sulfate (mg/l)	149 - 293	58 - 70
Dissolved solids (mg/l)	1,955 - 2,703	521 - 701
Turbidity (JTU)	3 - 30	35 - 365
Dissolved oxygen (mg/l)	8.6 - 12.9	7.3 - 8.9
Temperature (^{0}C)	19 - 31	17 - 22

Comparison of the physical and chemical data for the May - June 1976 sampling period with that of May - June 1975 indicates that the range of water temperatures was similar in Yellow Creek but higher (2 - 6^{0}C) in the White River in 1976. Turbidities were generally higher in both

Yellow Creek and the White River in 1976 than in 1975 (3 - 7 JTU in Yellow Creek and 29 - 77 JTU in White River). The concentrations of dissolved solids were also higher in 1976 than in 1975 (2,100 - 2,600 mg/l in Yellow Creek; 192 - 269 mg/l in White River) in both Yellow Creek and the White River, as was the range of specific conductance (1,900 - 3,600 µmhos in Yellow Creek in 1975; 250 - 450 µmhos in White River in 1975). These generally high concentrations of constituents in Yellow Creek and the White River in 1976 are likely related to the occurrence of heavy rain showers and associated runoff during the 1976 sampling.

Comparison of the physical and chemical data for the July - August 1976 sampling period with that of July - August 1975 indicates that the range of water temperatures was higher in Yellow Creek (16 - 22^{0}C in 1975) in 1976 but very similar in the White River (18 - 21^{0}C in 1975). In Yellow Creek, turbidities were similar during July - August 1975 (7 - 25 JTU) and 1976, whereas turbidities in the White River were higher during July - August 1976 than during the same period in 1975 (10 - 35 JTU). The concentrations of dissolved solids were generally higher in 1976 in both Yellow Creek and the White River than they were in 1975 (1,920 - 2,580 mg/l in Yellow Creek; 365 - 417 mg/l in White River); the specific conductance was also higher in both Yellow Creek and the White River in 1976 than in 1975 (2,600 - 3900 µmhos in Yellow Creek; 625 - 1,250 µmhos in White River). The generally higher turbidities, conductivity, and levels of dissolved solids in the White River during the 1976 sampling period were likely related to rain showers and to road construction (Piceance Creek Bridge) several miles upstream of the sampling area.

2.4.1 - Physical Measurements and Water Chemistry Data

APPENDIX G-1-1

DATES OF SAMPLING FOR
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-1-1

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976.

Station	Date Sampled	Flow Condition
1	6- 4-76	Flowing
2	6- 4-76	Flowing
3	6- 2-76	Flowing
4	6- 3-76	Flowing
5	5-24-76	Flowing
6	5-24-76	Flowing
7	6- 3-76	Flowing
8	5-24-76	Flowing
9	6- 3-76	Flowing
10	6- 3-76	Dry
11	6- 3-76	Dry
12	6- 3-76	Dry
13	5-25-76	Flowing
14	6- 1-76	Flowing
15	6- 1-76	Flowing
16	5-24-76	Dry
17	6- 1-76	Flowing
18	6- 1-76	Flowing
19	5-24-76	Flowing
20	6-24-76	Flowing
21	6-24-76	Flowing
22	6-23-76	Flowing
23	6-25-76	Flowing
24	6-21-76	Inaccessible (High Flows)
25	6-21-76	Flowing
26	6-21-76	Flowing
27	6-22-76	Flowing
28	6-22-76	Flowing
29	6-22-76	Flowing
30	6-27-76	Inaccessible (High Flows)
31	6-27-76	Flowing
32	6-27-76	Flowing
33	6-23-76	Inaccessible (High Flows)
34	6-23-76	Inaccessible (High Flows)
35	6-23-76	Flowing

APPENDIX G-2-1

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

APPENDIX G-2-1

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976.

Station	Date Sampled	Flow Condition
1	7-15-76	Flowing
2	7-15-76	Flowing
3	7-20-76	Flowing
4	7-19-76	Flowing
5	7-27-76	Flowing
6	7-14-76	Dry
7	7-19-76	Flowing
8	7-14-76	Flowing
9	7-19-76	Flowing
10	7-20-76	Dry
11	7-20-76	Dry
12	7-20-76	Dry
13	7-22-76	Flowing
14	7-22-76	Flowing
15	7-14-76	Dry
16	7-15-76	Dry
17	7-14-76	Dry
18	7-14-76	Dry
19	7-27-76	Flowing
20	7-23-76	Flowing
21	7-23-76	Flowing
22	7-23-76	Flowing
23	8- 4-76	Flowing
24	8- 7-76	Flowing
25	8- 7-76	Flowing
26	8- 7-76	Flowing
27	8- 2-76	Flowing
28	8- 2-76	Flowing
29	8- 2-76	Flowing
30	8- 6-76	Flowing
31	8- 6-76	Flowing
32	8- 6-76	Flowing
33	8- 3-76	Flowing
34	8- 3-76	Flowing
35	8- 3-76	Flowing

RBOSP PROGRESS REPORT

APPENDIX G-3-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-3-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.[1]

Station	Water Temperature (°C)	Conductivity[2] (µmhos/cm)			Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_3$)	pH
		s	m	s			
1	9		900		8.2	361	7.4
2	11		950		8.2	377	7.5
3	19		1200		7.8	365	8.2
4	16		1300		8.2	434	8.1
5	17		1175		10.2	430	8.1
6	19		750		7.5	294	8.2
7	22		1100		7.2	301	8.2
8	15		825		7.2	328	7.8
9	16		1150		8.6	354	8.1
13	18		1100		6.1	379	7.8
14	24		1750		12.3	510	8.2
15	18		1800		8.9	498	7.7
17	14		1700		9.1	496	7.7
18	14		1800		10.4	496	7.7
19	14		2600		11.6	796	8.1
20	22		4200		6.3	1740	8.0
21	17		3900		7.4	1660	8.5
22	25		4100		8.1	1226	9.0
23	14		575		8.7	155	
25	18		570		8.5	321	7.9

[1]Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

[2]Measurements taken at sides (s) and middle (m) of stream wherever possible.

APPENDIX G-3-1 (Continued)

Station	Water Temperature (°C)	Conductivity[2] (µmhos/cm)			Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_3$)	pH
		s	m	s			
26	18		570		8.1	321	7.9
27	18		550;550;550		8.0	157	8.0
28	19		1000;475;550		8.1	190	8.3
29	19		675;525;500		8.1	175	8.1
31	17		600;575;575		8.6	167	8.0
32	18		625;575;600		8.5	176	8.0
35	15		480		8.2	164	8.0

APPENDIX G-3-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate[1]	Width	Depth (in.)		
						s	m	s
1	< 1	0-5	None	Gr	10"		2"	
2	< 1	0-5	None	Gr	10"		2"	
3	< 1	0-5	None	Gr	3"		1"	
4	< 1	0-5	None	Gr,Sa	6"		1"	
5	< 1	0-5	None	Gr,Sa	14"		6"	
6	63	0-5	None	Gr,Sa	30"		2"	
7	2	0-5	None	Gr,Sa	6"		2"	
8	43	0-5	None	Gr,Sa	36"		3"	
9	< 1	0-5	None	Gr,Sa	7"		2"	
13	163	0-5	None	Gr,Sa	30"		5"	
14	2	0-5	None	Gr,Sa	18"		6"	
15	< 1	0-5	None	Gr,Sa	10"		2"	
17	< 1	0-5	None	Gr,Sa	6"		2"	
18	< 1	0-5	None	Gr,Sa	16"		1"	
19	10	10-20	None	Gr,Sa	15"		7"	
20	12	0-5	None	Gr,Sa	36"		5"	
21	14	0-5	None	Gr,Sa	12'		6"	
22	21	0-5	None	Gr,Sa	4'		4"	
23	19	0-5	None	Co	43'		18";14";10"	
25	21	0-5	None	Co	--		18";22";28"	

[1]Co = Cobble, Gr = Gravel, Sa = Sand

[2]Measurements taken at sides (s) and middle (m) of stream wherever possible.

[3]Stations 25, 26, and 31 - 35 were inaccessible for measuring width of stream due to high flows.

APPENDIX G-3-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate[1]	Width	Depth (in.)		
						s	m	s
26	13	0-5	None	Co	--	8"	19"	18"
27	13	0-5	None	Co	56'	8"	26"	6"
28	34	0-5	None	Co	88'	8"	18"	4"
29	14	0-5	None	Co	33'	3"	16"	14"
31	16	0-5	None	Co	--	15"	18"	16"
32	11	0-5	None	Co	--	10"	15"	12"
35	325	0-5	None	Co	--	18"		

APPENDIX G-4-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX G-4-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1]

Station	Water Temperature (C°)	Conductivity[2] (µmhos/cm)			Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_2$)	pH
		s	m	s			
1	10		1050		6.9	369	7.9
2	13		900		7.6	393	8.2
3	21		1200		7.4	395	7.9
4	18		1200		7.6	432	8.0
5	23		1400		8.5	409	8.0
7	27		1100		6.5	313	8.0
8	19		1150		7.9	361	7.8
9	19		1150		7.5	372	8.0
13	15		1200		7.1	381	8.0
14	23		1700		8.5	528	8.0
19	19		2800		12.9	754	8.0
20	31		4500		8.6	1664	8.0
21	28		4000		10.2	1588	8.0
22	24		3330		12.2	1346	8.0
23	18		1000		8.0	246	8.0
24	17	850;	850;	850	8.0	257	8.0
25	17	850;	850;	850	8.1	266	8.0
26	17	850;	850;	850	8.2	265	8.0
27	20	950;	925;	925	7.3	256	8.0

[1] Stations 6, 10 - 12 and 15 - 18 were dry at the time of sampling.

[2] Measurements taken at sides (s) and middle (m) of stream wherever possible.

APPENDIX G-4-1 (Continued)

Station	Water Temperature (C°)	Conductivity (μmhos/cm) s m s	Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_2$)	pH
28	22	3500; 875; 900	7.3	328	8.0
29	20	1050;1000; 900	7.4	278	8.0
30	19	900; 900; 900	8.9	271	8.1
31	19	925; 900; 900	8.8	265	8.1
32	19	1000; 950; 925	8.9	292	8.1
33	21	900; 900; 900	7.5	262	7.8
34	21	900; 900; 900	7.5	255	7.8
35	21	900; 900; 900	7.6	267	7.8

APPENDIX G-4-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate[1]	Width	Depth[2] (in.) S	m	S
1	1	0-5	None	Gr, Sa	10"	2		
2	1	0-5	None	Gr, Sa	8"	3		
3	8	30-40	None	Gr, Sa	3"	3		
4	5	0-5	None	Gr, Sa	18"	2		
5	1	10-20	None	Gr, Sa	4"	3		
7	27	5-10	None	Gr, Sa	12"	2		
8	10	0-5	None	Gr, Sa	3'	2		
9	12	0-5	None	Gr, Sa	12"	2		
13	4	5-10	None	Gr, Sa	3'	3		
14	14	5-10	None	Sa	4"	3		
19	3	20-30	None	Gr	8"	5		
20	3	20-30	None	Gr, Sa	10"	3		
21	14	20-30	None	Gr, Si	6'	4		
22	30	20-30	None	Gr, Si	4'	3		
23	120	10-20	None	Co, Si	33'	12	10	6
24	35	10-20	None	Co	135'	10	10	1
25	36	10-20	None	Co	135'	20	20	14
26	36	10-20	None	Co	135'	8	12	18
27	250	10-20	None	Co, Si	46'	22	22	8

[1]Co = Cobble
Gr = Gravel
Sa = Sand
Si = Silt

APPENDIX G-4-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate[1]	Width	Depth[2] (in.) s m s
28	285	20-30	None	Co, Si	70'	2;12; 1
29	365	30-40	None	Co	24'	8;11; 5
30	43	10-20	None	Co, Gr	144'	18;18;10
31	46	10-20	None	Co, Gr	144'	8;12;14
32	45	10-20	None	Co, Gr	144'	6; 6;12
33	100	10-20	None	Co, Gr	48'	24; 6; 4
34	105	20-30	None	Co	18'	12;16; 8
35	105	20-30	None	Co	51'	6;28; 1

APPENDIX G-5-1

WATER CHEMISTRY DATA
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-5-1

WATER CHEMISTRY DATA. RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976. (Data are expressed in mg/l unless otherwise noted.)[1-2]

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color[2] (F)
1-A	<0.1	96	9	8	4	0-5
1-B	<0.1	95	9	8	3	0-5
2-A	<0.1	100	6	4	4	0-5
2-B	<0.1	100	5	6	4	0-5
3-A	<0.1	88	4	5	8	0-5
3-B	<0.1	89	4	5	8	0-5
4-A	<0.1	120	4	2	6	0-5
4-B	<0.1	120	2	3	7	0-5
5-A	<0.1	100	3	3	10	0-5
5-B	<0.1	100	4	4	10	0-5
6-A	<0.1	61	2	7	6	0-5
6-B	<0.1	60	6	7	5	0-5
7-A	<0.1	65	6	7	7	0-5
7-B	<0.1	65	6	6	8	0-5
8-A	<0.1	67	6	4	7	0-5
8-B	<0.1	66	6	4	7	0-5
9-A	<0.1	85	5	5	7	0-5
9-B	<0.1	87	6	4	7	0-5
13-A	<0.1	76	8	12	9	0-5
13-B	<0.1	75	16	20	9	0-5
14-A	<0.1	90	21	21	15	0-5
14-B	<0.1	91	21	19	15	0-5
15-A	<0.1	100	17	17	18	0-5
15-B	<0.1	100	17	17	17	0-5
17-A	<0.1	110	17	17	17	0-5
17-B	<0.1	110	15	17	17	0-5

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were either dry or inaccessible at the time of sampling.

[2] Data for color are APHA units.

APPENDIX G-5-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
18-A	<0.1	110	17	17	17	0-5
18-B	<0.1	110	17	17	17	0-5
19-A	<0.1	58	24	20	27	10-20
19-B	<0.1	58	20	20	28	10-20
20-A	<0.1	26	74	83	160	0-5
20-B	<0.1	22	64	64	159	0-5
21-A	<0.1	26	74	74	148	0-5
21-B	<0.1	26	56	64	162	0-5
22-A	<0.1	22	63	82	155	0-5
22-B	<0.1	22	63	72	159	0-5
23-A	<0.1	52	8	7	16	0-5
23-B	<0.1	53	9	7	16	0-5
25-A	<0.1	58	9	9	16	0-5
25-B	<0.1	58	8	9	19	0-5
26-A	<0.1	58	10	9	20	0-5
26-B	<0.1	58	9	9	19	0-5
27-A	<0.1	54	8	9	18	0-5
27-B	<0.1	54	9	9	18	0-5
28-A	<0.1	52	10	10	22	0-5
28-B	<0.1	53	9	10	21	0-5
29-A	<0.1	54	11	10	20	0-5
29-B	<0.1	54	9	9	20	0-5
31-A	<0.1	58	8	9	19	0-5
31-B	<0.1	60	8	9	20	0-5

APPENDIX G-5-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
32-A	<0.1	56	9	11	20	0-5
32-B	<0.1	58	9	9	19	0-5
35-A	<0.1	52	11	10	20	0-5
35-B	<0.1	52	10	12	18	0-5

APPENDIX G-5-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
1-A	336	44	0.9	<0.01	0.44	None	<0.01	0.02
1-B	394	44	0.6	<0.01	0.28	None	<0.01	0.01
2-A	332	46	0.4	<0.01	0.22	None	<0.01	0.03
2-B	320	46	0.4	<0.01	0.28	None	<0.01	0.03
3-A	348	58	<0.2	<0.01	0.23	None	<0.01	0.02
3-B	328	55	<0.2	<0.01	0.25	None	<0.01	0.02
4-A	444	63	0.5	<0.01	0.30	None	<0.01	0.04
4-B	360	63	0.7	<0.01	0.26	None	<0.01	0.03
5-A	496	87	<0.2	<0.01	0.44	None	<0.01	0.02
5-B	434	86	<0.2	<0.01	0.43	None	<0.01	0.02
6-A	250	44	0.6	<0.01	0.67	None	<0.01	0.12
6-B	300	44	0.4	<0.01	0.75	None	<0.01	0.13
7-A	361	60	0.3	<0.01	0.37	None	<0.01	0.02
7-B	370	61	<0.2	<0.01	0.37	None	<0.01	0.02
8-A	328	49	0.4	<0.01	0.54	None	<0.01	0.10
8-B	307	48	0.4	<0.01	0.52	None	0.01	0.10
9-A	388	46	<0.2	<0.01	0.34	None	<0.01	0.01
9-B	349	48	<0.2	<0.01	0.34	None	<0.01	0.02
13-A	375	51	<0.2	<0.01	1.00	None	0.02	0.34
13-B	358	50	<0.2	<0.01	1.00	None	0.02	0.35
14-A	572	100	<0.2	<0.01	0.71	None	<0.01	0.07
14-B	553	99	<0.2	<0.01	0.68	None	<0.01	0.05
15-A	622	110	<0.2	<0.01	0.46	None	0.02	0.05
15-B	625	110	<0.2	<0.01	0.40	None	0.02	0.05
17-A	607	110	<0.2	<0.01	0.43	None	0.01	0.05
17-B	612	120	<0.2	<0.01	0.29	None	0.01	0.05

APPENDIX G-5-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
18-A	669	110	<0.2	<0.01	0.39	None	0.01	0.05
18-B	657	120	<0.2	<0.01	0.37	None	0.01	0.04
19-A	825	190	<0.2	<0.01	0.62	None	0.01	0.05
19-B	822	190	<0.2	<0.01	0.73	None	0.01	0.05
20-A	468	100	<0.2	<0.01	0.39	None	<0.01	0.02
20-B	471	100	<0.2	<0.01	0.42	None	<0.01	0.02
21-A	480	100	<0.2	<0.01	0.41	None	<0.01	0.02
20-B	483	100	<0.2	<0.01	0.49	None	<0.01	0.02
22-A	473	100	<0.2	<0.01	0.53	None	0.02	0.05
22-B	476	100	<0.2	<0.01	0.53	None	0.02	0.05
23-A	209	18	<0.2	<0.01	0.39	None	0.02	0.05
23-B	209	18	<0.2	<0.01	0.39	None	0.02	0.07
25-A	227	18	<0.2	<0.01	0.34	None	0.02	0.06
25-B	227	18	<0.2	<0.01	0.32	None	0.02	0.05
26-A	226	20	<0.2	<0.01	0.24	None	0.02	0.06
26-B	223	19	<0.2	<0.01	0.29	None	0.02	0.07
27-A	213	18	<0.2	<0.01	0.40	None	0.02	0.06
27-B	212	18	<0.2	<0.01	0.38	None	0.02	0.06
28-A	217	22	<0.2	<0.01	0.50	None	0.02	0.09
28-B	221	19	<0.2	<0.01	0.50	None	0.02	0.06
29-A	209	18	<0.2	<0.01	0.36	None	0.02	0.07
29-B	209	20	<0.2	<0.01	0.36	None	0.02	0.06
31-A	219	18	<0.2	<0.01	0.32	None	0.02	0.06
31-B	219	18	<0.2	<0.01	0.24	None	0.02	0.05

APPENDIX G-5-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
32-A	219	18	<0.2	<0.01	0.28	None	0.02	0.07
32-B	219	22	<0.2	<0.01	0.26	None	0.02	0.06
35-A	214	20	<0.2	<0.01	0.91	None	0.03	0.30
35-B	209	19	<0.2	<0.01	0.82	None	0.03	0.26

APPENDIX G-5-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
1-A	<1.0	11.1	39	537	< 1	36
1-B	<1.0	11.2	39	551	< 1	35
2-A	<1.0	11.7	52	579	1	48
2-B	<1.0	11.2	52	558	1	49
3-A	6.8	9.0	110	698	< 1	94
3-B	2.3	9.0	110	710	< 1	94
4-A	1.3	10.0	86	787	8	88
4-B	1.4	10.0	86	720	10	84
5-A	2.0	5.1	130	884	14	132
5-B	2.0	5.3	120	922	5	131
6-A	1.1	10.1	51	469	152	45
6-B	1.1	10.5	51	492	120	45
7-A	1.6	8.9	89	681	3	89
7-B	1.6	8.6	89	695	4	85
8-A	1.3	10.4	61	558	86	50
8-B	1.3	10.4	61	543	91	51
9-A	1.8	9.6	89	738	1	84
9-B	1.7	9.6	89	694	1	79
13-A	1.7	10.2	92	696	508	71
13-B	1.8	10.0	91	691	521	70
14-A	3.6	6.9	190	1183	13	159
14-B	3.5	6.9	190	1163	12	158
15-A	4.3	9.3	180	1275	6	174
15-B	4.3	9.3	180	1276	< 1	170
17-A	3.9	9.5	170	1232	17	167
17-B	3.9	9.5	170	1233	< 1	169

APPENDIX G-5-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
18-A	4.0	9.5	170	1286	< 1	172
18-B	4.0	9.9	170	1290	4	172
19-A	5.1	7.1	410	2069	11	285
19-B	5.1	6.8	410	2094	7	294
20-A	5.0	3.0	920	2781	5	187
20-B	5.0	3.1	910	2731	25	184
21-A	5.0	4.3	920	2760	26	185
21-B	5.0	3.8	930	2750	16	184
22-A	5.6	3.6	920	2705	44	183
22-B	5.3	3.4	930	2771	28	190
23-A	1.7	5.3	30	337	42	27
23-B	1.7	6.7	29	318	33	28
25-A	1.8	5.2	33	353	28	32
25-B	1.8	5.1	33	354	6	33
26-A	2.0	4.5	33	351	30	32
26-B	1.9	5.2	33	350	33	32
27-A	1.8	6.7	33	338	30	31
27-B	1.8	6.5	32	340	25	30
28-A	2.1	6.0	59	412	67	36
28-B	2.0	6.8	53	483	63	35
29-A	1.9	6.6	42	368	34	33
29-B	1.9	6.9	43	387	25	34
31-A	1.9	5.4	37	372	9	35
31-B	1.9	6.9	37	383	49	35

APPENDIX G-5-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
32-A	1.9	5.6	41	377	14	33
32-B	1.9	6.0	43	387	18	35
35-A	2.2	6.7	47	345	454	33
35-B	2.2	6.3	35	344	458	31

APPENDIX G-6-1

WATER CHEMISTRY DATA
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX G-6-1

WATER CHEMISTRY DATA. RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.
(Data are expressed in mg/l unless otherwise noted)[1-2]

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
1-A	<0.1	43	18	18	4	0-5
1-B	<0.1	43	14	20	4	0-5
2-A	<0.1	45	12	18	5	0-5
2-B	<0.1	44	16	16	5	0-5
3-A	0.3	60	50	22	18	30-40
3-B	0.3	60	48	24	16	30-40
4-A	<0.1	61	18	20	7	0-5
4-B	<0.1	60	18	20	7	0-5
5-A	<0.1	84	22	18	11	10-20
5-B	<0.1	84	20	20	9	10-20
7-A	<0.1	67	18	16	8	5-10
7-B	<0.1	66	15	13	8	5-10
8-A	<0.1	82	16	16	10	0-5
8-B	<0.1	82	16	16	9	0-5
9-A	<0.1	87	14	18	8	0-5
9-B	<0.1	87	14	16	8	0-5
13-A	<0.1	59	20	20	10	5-10
13-B	<0.1	58	18	20	10	5-10

[1]Stations 6, 10 - 12 and 15 - 18 were dry at the time of sampling.

[2]Data for color are APHA units.

APPENDIX G-6-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
14-A	<0.1	99	28	28	13	5-10
14-B	<0.1	99	28	24	15	5-10
19-A	<0.1	190	31	31	29	20-30
19-B	<0.1	180	33	31	29	20-30
20-A	<0.1	96	230	230	163	20-30
20-B	<0.1	95	220	230	179	20-30
21-A	<0.1	17	38	37	160	20-30
21-B	<0.1	17	37	38	157	20-30
22-A	<0.1	31	35	39	146	20-30
22-B	<0.1	31	31	35	145	20-30
23-A	<0.1	80	11	13	32	10-20
23-B	<0.1	82	12	16	32	10-20
24-A	<0.1	80	10	12	35	10-20
24-B	<0.1	79	10	11	35	10-20
25-A	<0.1	80	11	11	36	10-20
25-B	<0.1	80	9	10	36	10-20
26-A	<0.1	79	10	10	37	10-20
26-B	<0.1	79	11	12	36	10-20
27-A	<0.1	87	13	17	35	20-30
27-B	<0.1	88	16	21	35	20-30
28-A	<0.1	82	15	25	42	20-30
28-B	<0.1	83	13	20	41	20-30
29-A	0.1	86	14	25	36	30-40
29-B	<0.1	86	14	22	37	30-40

APPENDIX G-6-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
30-A	<0.1	77	10	9	36	10-20
30-B	<0.1	77	14	14	35	10-20
31-A	<0.1	74	12	11	36	10-20
31-B	<0.1	76	14	14	37	10-20
32-A	<0.1	75	13	13	36	10-20
32-B	<0.1	76	13	13	39	10-20
33-A	<0.1	82	14	15	32	10-20
33-B	<0.1	82	11	11	32	10-20
34-A	<0.1	82	13	12	33	20-30
34-B	<0.1	83	12	15	34	20-30
35-A	<0.1	83	13	15	32	20-30
35-B	<0.1	81	13	13	33	20-30

APPENDIX G-6-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
1-A	411	94	0.7	<0.01	0.36	None	<0.01	0.01
1-B	414	94	0.8	<0.01	0.43	None	<0.01	0.01
2-A	417	93	<0.2	0.05	0.14	None	<0.01	0.01
2-B	417	94	<0.2	0.05	0.26	None	<0.01	0.01
3-A	462	86	<0.2	<0.01	8.50	None	0.02	0.12
3-B	462	86	<0.2	<0.01	7.70	None	0.01	0.11
4-A	536	110	0.8	<0.01	0.34	None	0.01	0.05
4-B	540	110	0.8	<0.01	0.36	None	<0.01	0.04
5-A	555	81	<0.2	<0.01	0.50	None	<0.01	0.03
5-B	557	82	<0.2	<0.01	0.50	None	<0.01	0.03
7-A	394	57	<0.2	<0.01	0.40	None	<0.01	0.07
7-B	404	58	0.2	<0.01	0.37	None	<0.01	0.07
8-A	435	52	0.3	<0.01	0.31	None	0.03	0.06
8-B	435	52	0.5	<0.01	0.21	None	0.02	0.05
9-A	461	57	0.2	<0.01	0.45	None	<0.01	0.04
9-B	463	57	0.2	<0.01	0.64	None	<0.01	0.04
13-A	435	79	<0.2	<0.01	0.19	None	0.01	0.03
13-B	453	80	<0.2	<0.01	0.26	None	0.01	0.03

APPENDIX G-6-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
14-A	625	97	<0.2	<0.01	0.46	None	<0.01	0.03
14-B	590	97	<0.2	<0.01	0.53	None	<0.01	0.03
19-A	871	47	<0.2	<0.01	0.39	None	0.02	0.04
19-B	892	47	<0.2	<0.01	0.42	None	<0.01	0.04
20-A	441	10	<0.2	<0.01	0.38	None	<0.01	0.02
20-B	441	10	<0.2	<0.01	0.37	None	<0.01	0.02
21-A	426	96	<0.2	<0.01	0.42	None	<0.01	0.04
21-B	431	97	<0.2	<0.01	0.44	None	<0.01	0.04
22-A	396	85	<0.2	<0.01	0.44	None	<0.01	0.08
22-B	394	83	<0.2	<0.01	0.44	None	0.02	0.08
23-A	330	33	<0.2	<0.01	0.57	None	0.02	0.17
23-B	334	31	<0.2	<0.01	0.57	None	0.01	0.17
24-A	324	33	<0.2	<0.01	0.34	None	0.01	0.09
24-B	326	31	<0.2	<0.01	0.30	None	0.01	0.09
25-A	324	32	<0.2	<0.01	0.34	None	0.01	0.08
25-B	324	32	<0.2	<0.01	0.38	None	0.01	0.08
26-A	322	33	<0.2	<0.01	0.42	None	0.01	0.10
26-B	322	31	<0.2	<0.01	0.38	None	0.04	0.08
27-A	368	34	<0.2	<0.01	1.30	None	0.04	0.45
27-B	364	33	<0.2	<0.01	1.30	None	0.04	0.43
28-A	368	35	<0.2	<0.01	1.50	None	0.04	0.32
28-B	362	37	<0.2	<0.01	1.50	None	0.06	0.31
29-A	376	35	<0.2	<0.01	2.00	None	0.04	0.55
29-B	374	35	<0.2	<0.01	2.00	None	0.04	0.45

APPENDIX G-6-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
30-A	322	32	<0.2	<0.01	0.25	None	0.01	0.11
30-B	318	33	<0.2	<0.01	0.30	None	0.01	0.10
31-A	316	34	<0.2	<0.01	0.37	None	0.01	0.08
31-B	320	33	<0.2	<0.01	0.33	None	0.02	0.09
32-A	314	34	<0.2	<0.01	0.30	None	0.01	0.08
32-B	314	33	<0.2	<0.01	0.30	None	0.01	0.08
33-A	340	33	<0.2	<0.01	0.61	None	0.03	0.20
33-B	344	32	<0.2	<0.01	0.61	None	0.03	0.22
34-A	344	35	<0.2	<0.01	0.64	None	0.03	0.25
34-B	342	34	<0.2	<0.01	0.61	None	0.03	0.26
35-A	344	33	<0.2	<0.01	0.64	None	0.03	0.22
35-B	340	33	<0.2	<0.01	0.72	None	0.03	0.26

APPENDIX G-6-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
1-A	1.1	11.0	42	548	< 1	36
1-A	1.1	11.0	42	550	< 1	36
2-A	1.1	11.0	62	618	< 1	49
2-B	1.1	11.0	61	613	1	50
3-A	28.0	8.8	110	831	15	97
3-B	24.0	8.8	120	843	17	96
4-A	2.2	10.0	84	807	13	86
4-B	2.1	10.0	86	816	12	88
5-A	2.4	6.6	140	957	< 1	129
5-B	2.3	6.7	130	962	2	131
7-A	2.7	9.4	88	696	95	90
7-B	2.6	9.3	88	689	80	91
8-A	1.8	9.6	71	655	29	66
8-B	1.8	9.7	71	649	35	66
9-A	2.6	9.9	90	754	22	93
9-B	2.6	9.9	91	754	25	92
13-A	2.0	9.2	99	748	5	82
13-B	2.0	9.5	98	742	11	83

APPENDIX G-6-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
14-A	3.5	10.0	170	1182	13	150
14-B	3.4	10.0	180	1192	11	157
19-A	5.4	4.8	380	1971	2	293
19-B	5.2	4.7	390	1955	1	290
20-A	6.7	3.6	910	2703	6	173
20-B	6.6	3.6	900	2685	1	175
21-A	6.4	3.9	850	2585	12	172
21-B	6.7	3.7	840	2611	7	168
22-A	6.8	4.9	730	2237	8	149
22-B	6.9	4.9	730	2251	23	153
23-A	3.1	7.7	66	558	382	58
23-B	3.1	7.9	66	521	429	60
24-A	2.9	7.1	70	546	107	60
24-B	2.9	7.4	71	569	96	61
25-A	3.0	7.1	70	568	91	61
25-B	2.9	7.2	71	570	92	62
26-A	2.9	7.4	67	558	86	59
26-B	2.9	7.2	72	578	74	60
27-A	4.0	8.3	73	629	696	64
27-B	4.0	8.2	72	620	752	64
28-A	4.3	7.9	130	701	799	70
28-B	4.3	8.2	110	697	820	70
29-A	4.3	8.3	78	689	1060	64
29-B	4.3	8.3	76	683	1060	68

APPENDIX G-6-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
30-A	3.0	7.4	66	573	117	59
30-B	3.3	7.4	69	564	91	60
31-A	3.2	7.5	72	572	103	61
31-B	3.2	7.5	70	575	77	60
32-A	3.3	7.1	87	605	86	62
32-B	3.3	7.4	84	665	81	64
33-A	3.6	8.4	64	582	264	61
33-B	3.6	8.4	64	589	293	60
34-A	3.5	8.3	68	585	339	59
34-B	3.6	8.4	64	635	334	61
35-A	3.6	8.3	68	584	331	61
35-A	3.8	8.5	70	596	330	60

2.4.2 Phytoplankton

Algal taxa observed in the April 1976 collections are listed in Appendix G-7-1. A total of 118 taxa was observed in these samples. Quantitative data from the April 1976 samples are presented in Appendix G-7-2.

During April, the most abundant phytoplankton taxa at the headwater stations were the diatoms Navicula pelliculosa, Achnanthes minutissima, and Surirella ovata and the chrysophyte Chrysidiastrum ocellatum. At the tract stations, the most abundant taxa included Navicula pelliculosa, Chrysidiastrum ocellatum, and unidentified flagellates. In Yellow Creek, the most abundant phytoplankton taxa were Synedra amphicephala, Nitzschia capitellata, Surirella ovata, and unidentified flagellates, whereas in the White River, the most abundant taxa were Navicula viridula, Gomphonema olivaceum, Nitzschia capitellata, and Surirella ovata.

Algal taxa observed in the May - June 1976 collections are listed in Appendix G-7-3. A total of 122 taxa was observed in these collections. Quantitative data from the May - June 1976 collections are presented in Appendix G-7-4.

During the May - June period, the most abundant algal taxa in the phytoplankton of the headwater stations were the diatoms Achnanthes minutissima, Navicula pelliculosa, and Nitzschia capitellata and the chrysophyte Chrysidiastrum ocellatum. At the tract stations, the most abundant taxa were the diatoms Achnanthes minutissima, Navicula pelliculosa, Navicula cryptocephala, the chrysophyte Chrysidiastrum ocellatum, the green alga Quadrigula lacustris, and unidentified microflagellates. In Yellow Creek, the most abundant taxa were the diatom Cyclotella meneghiniana and unidentified microflagellates, whereas in the White River, the most abundant taxa were the diatoms Navicula cryptocephala, Navicula pelliculosa, Navicula viridula, Gomphonema olivaceum, and Cyclotella meneghiniana.

2.4.2 - Phytoplankton Data

RBOSP PROGRESS REPORT

APPENDIX G-7-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES APRIL 1976

APPENDIX G-7-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, APRIL 1976

CYANOPHYTA

- LYNGBYA SPP
- OSCILLATORIA TENUIS
- OSCILLATORIA SPP
- ANABAENA SPP
- CALOTHRIX SPP

CHLOROPHYTA

- CHLAMYDOMONAS GLOBOSA
- ULOTHRIX SPP
- STIGEOCLONIUM SPP
- CLADOPHORA SPP
- OOCYSTIS PUSILLA
- ANKISTRODESMUS CONVOLUTUS
- ANKISTRODESMUS FALCATUS
- SELENASTRUM MINUTUM
- SCENEDESMUS QUADRICAUDA
- CLOSTERIUM LEIBLEINII
- CHLOROPHYTA I

CHRYSOPHYTA

- BICOECA LACUSTRIS
- CHRYSIDIASTRUM OCELLATUM
- MELOSIRA DISTANS
- MELOSIRA ITALICA

CHRYSOPHYTA

MELOSIRA VARIANS
THALASSIOSIRA FLUVIATILIS
CYCLOTELLA MENEGHINIANA
STEPHANODISCUS ASTRAEA
STEPHANODISCUS TENUIS
STEPHANODISCUS SPP
TABELLARIA FLOCCULOSA
DIATOMA HIEMALE
DIATOMA TENUE
DIATOMA TENUE VAR. ELONGATUM
DIATOMA VULGARE
MERIDION CIRCULARE
FRAGILARIA CAPUCINA
FRAGILARIA CONSTRUENS
FRAGILARIA CROTONENSIS
FRAGILARIA LEPTOSTAURON
FRAGILARIA PINNATA
FRAGILARIA VAUCHERIAE
SYNEDRA AMPHICEPHALA
SYNEDRA MINUSCULA
SYNEDRA PULCHELLA

CHRYSOPHYTA

SYNEDRA TENERA
SYNEDRA ULNA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
STAURONEIS PHOENICENTERON
ANOMOEONEIS SPHAEROPHORA
DIPLONEIS ELLIPTICA
NAVICULA ARVENSIS
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA GREGARIA
NAVICULA LANCEOLATA
NAVICULA MUTICA
NAVICULA PELLICULOSA
NAVICULA PUPULA
NAVICULA RADIOSA

CHRYSOPHYTA

NAVICULA SALINARUM

NAVICULA SALINARUM VAR. INTERMEDIA

NAVICULA TRIPUNCTATA

NAVICULA VIRIDULA

NAVICULA SPP

NAVICULA SP 1

NAVICULA SP 2

CALONEIS AMPHISBAENA

CALONEIS BACILLUM

CALONEIS VENTRICOSA

PINNULARIA BOREALIS

PINNULARIA BREBISSONII

PINNULARIA GLOBICEPS

PINNULARIA MAJOR

PINNULARIA VIRIDIS

AMPHORA OVALIS

AMPHORA OVALIS VAR. PEDICULUS

CYMBELLA AFFINIS

CYMBELLA AMPHICEPHALA

CYMBELLA MEXICANA

CYMBELLA MICROCEPHALA

CHRYSOPHYTA

CYMBELLA SINUATA
CYMBELLA VENTRICOSA
DIDYMOSPHENIA GEMINATA
GOMPHONEMA INTRICATUM
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA VENTRICOSUM
AMPHIPRORA ALATA
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FRUSTULUM
NITZSCHIA GRACILIS
NITZSCHIA HOLSATICA

CHRYSOPHYTA

NITZSCHIA HUNGARICA
NITZSCHIA LINEARIS
NITZSCHIA PALEA
NITZSCHIA TRYBLIONELLA
NITZSCHIA VERMICULARIS
SURIRELLA ANGUSTATA
SURIRELLA OVATA
SURIRELLA OVALIS

EUGLENOPHYTA

EUGLENA PROXIMA
EUGLENA SPP

PYRRHOPHYTA

PERIDINIUM SPP

CRYPTOPHYTA

CRYPTOMONAS EROSA
RHODOMONAS MINUTA

MICROFLAGELLATES

FLAGELLATE UNIDENTIFIED

RBOSP PROGRESS REPORT

APPENDIX G-7-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES APRIL 1976

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1976.
(Site = Station; Rep = Replicate)[1]

SITE = 2

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
STIGEOCLONIUM SPP	.14		.07
ANKISTRODESMUS FALCATUS		1.00	.50
CHLOROPHYTA I	12.00		6.00
GROUP MEAN			6.57
CHRYSOPHYTA			
BICOECA LACUSTRIS	27.00		13.50
DIATOMA TENUE VAR. ELONGATUM		1.00	.50
FRAGILARIA VAUCHERIAE	1.00		.50
SYNEDRA AMPHICEPHALA	3.00	5.00	4.00
ACHNANTHES LANCEOLATA	8.00	7.00	7.50
ACHNANTHES MINUTISSIMA	53.00	55.00	54.00
NAVICULA ARVENSIS	3.00	1.00	2.00
NAVICULA CRYPTOCEPHALA	8.00	14.00	11.00
NAVICULA MUTICA		5.00	2.50
NAVICULA PELLICULOSA	19.00	34.00	26.50
NAVICULA SP 2		1.00	.50
CALONEIS BACILLUM	1.00		.50
CYMBELLA AFFINIS	3.00		1.50
GOMPHONEMA INTRICATUM	7.00	1.00	4.00

[1] Stations 1, 6, 10 - 12, 16, were dry or inaccessible during the time of sampling.

G-7-2 (Continued)

SITE = 2

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	12.00	5.00	8.50
NITZSCHIA FRUSTULUM	3.00	1.00	2.00
NITZSCHIA HOLSATICA	3.00	5.00	4.00
NITZSCHIA PALEA	8.00	3.00	5.50
SURIRELLA OVATA	1.00	1.00	1.00
GROUP MEAN			149.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	31.00	72.00	51.50
GROUP MEAN			51.50

SITE = 3

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I	32.00	43.00	37.50
GROUP MEAN			37.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	127.00	127.00	127.00
STEPHANODISCUS TENUIS	14.00		7.00
DIATOMA HIEMALE	3.00	3.00	3.00
FRAGILARIA VAUCHERIAE		5.00	2.50
SYNEDRA AMPHICEPHALA		11.00	5.50
COCCONEIS PEDICULUS		3.00	1.50
ACHNANTHES LANCEOLATA	11.00	16.00	13.50
ACHNANTHES MINUTISSIMA	30.00	86.00	58.00
ANOMOEONEIS SPHAEROPHORA		3.00	1.50
NAVICULA ARVENSIS	22.00	51.00	36.50
NAVICULA CRYPTOCEPHALA	27.00	130.00	78.50
NAVICULA GREGARIA	5.00	5.00	5.00
NAVICULA MUTICA	22.00	14.00	18.00
NAVICULA PELLICULOSA	1223.00	2052.00	1637.50
NAVICULA SALINARUM VAR. INTERMEDIA		5.00	2.50
NAVICULA SP 2	65.00	119.00	92.00

G-7-2 (Continued)

SITE = 3

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS VENTRICOSA		8.00	4.00
PINNULARIA BREBISSONII		8.00	4.00
PINNULARIA GLOBICEPS	22.00	43.00	32.50
AMPHORA OVALIS VAR. PEDICULUS	3.00		1.50
CYMBELLA AMPHICEPHALA		3.00	1.50
CYMBELLA MICROCEPHALA	14.00		7.00
CYMBELLA VENTRICOSA	5.00		2.50
GOMPHONEMA INTRICATUM	8.00	16.00	12.00
GOMPHONEMA OLIVACEUM	3.00	5.00	4.00
HANTZSCHIA AMPHIOXYS	5.00		2.50
NITZSCHIA CAPITELLATA	65.00	32.00	48.50
NITZSCHIA FRUSTULUM	35.00	154.00	94.50
NITZSCHIA HOLSATICA		14.00	7.00
NITZSCHIA LINEARIS		11.00	5.50
NITZSCHIA PALEA	24.00	76.00	50.00
CYMATOPLEURA SOLEA		.02	.01
GROUP MEAN			2366.51
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	14.00	138.00	76.00
GROUP MEAN			76.00

2.4.2.864

SITE = 4

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I	62.00	14.00	38.00
GROUP MEAN			38.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	389.00	235.00	312.00
MERIDION CIRCULARE		3.00	1.50
ACHNANTHES LANCEOLATA	32.00	14.00	23.00
ACHNANTHES MINUTISSIMA	310.00	116.00	213.00
GYROSIGMA ACUMINATUM	3.00		1.50
NAVICULA ARVENSIS	5.00	11.00	8.00
NAVICULA CRYPTOCEPHALA	181.00	81.00	131.00
NAVICULA MUTICA	5.00		2.50
NAVICULA PELLICULOSA	124.00	176.00	150.00
NAVICULA SALINARUM VAR. INTERMEDIA		14.00	7.00
NAVICULA TRIPUNCTATA	8.00		4.00
NAVICULA VIRIDULA	8.00		4.00
NAVICULA SP 2	19.00	5.00	12.00
CALONEIS BACILLUM		5.00	2.50
PINNULARIA BREBISSONII	.08		.04
AMPHORA OVALIS	3.00	8.00	5.50

2.4.2.865

G-7-2 (Continued)

SITE = 4

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHORA OVALIS VAR. PEDICULUS	3.00	3.00	3.00
GOMPHONEMA INTRICATUM	14.00	3.00	8.50
GOMPHONEMA PARVULUM	3.00		1.50
CYLINDROTHECA GRACILIS		3.00	1.50
NITZSCHIA ACICULARIS	8.00	3.00	5.50
NITZSCHIA CAPITELLATA	92.00	54.00	73.00
NITZSCHIA FRUSTULUM	62.00	54.00	58.00
NITZSCHIA HOLSATICA		5.00	2.50
NITZSCHIA LINEARIS	27.00	5.00	16.00
NITZSCHIA PALEA	43.00	65.00	54.00
SURIRELLA OVATA	3.00	3.00	3.00
GROUP MEAN			1104.04
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	89.00	116.00	102.50
GROUP MEAN			102.50

G-7-2 (Continued)

SITE = 5

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	3.00		1.50
ULOTHRIX SPP		.30	.15
OOCYSTIS PUSILLA		11.00	5.50
CHLOROPHYTA I	59.00	43.00	51.00
GROUP MEAN			58.15
CHRYSOPHYTA			
DIATOMA TENUE	3.00		1.50
DIATOMA TENUE VAR. ELONGATUM		8.00	4.00
SYNEDRA AMPHICEPHALA	49.00	38.00	43.50
SYNEDRA TENERA		3.00	1.50
COCCONEIS PEDICULUS	8.00	3.00	5.50
COCCONEIS PLACENTULA		5.00	2.50
ACHNANTHES LANCEOLATA	16.00	16.00	16.00
ACHNANTHES MINUTISSIMA	127.00	184.00	155.50
PLEUROSIGMA DELICATULUM		.36	.18
NAVICULA ARVENSIS	16.00	11.00	13.50
NAVICULA CRYPTOCEPHALA	140.00	97.00	118.50
NAVICULA CUSPIDATA	5.00	3.00	4.00
NAVICULA LANCEOLATA	5.00	3.00	4.00

2.4.2.867

G-7-2 (Continued)

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	35.00	47.00	41.00
NAVICULA RADIOSA	3.00		1.50
NAVICULA VIRIDULA	14.00	11.00	12.50
CALONEIS AMPHISBAENA		.02	.01
PINNULARIA MAJOR		.08	.04
PINNULARIA VIRIDIS		.52	.26
CYMBELLA AFFINIS	3.00		1.50
CYMBELLA VENTRICOSA	5.00		2.50
GOMPHONEMA INTRICATUM	81.00	41.00	61.00
GOMPHONEMA OLIVACEUM	5.00		2.50
CYLINDROTHECA GRACILIS	3.00		1.50
NITZSCHIA ACICULARIS	105.00	59.00	82.00
NITZSCHIA APICULATA	3.00	5.00	4.00
NITZSCHIA CAPITELLATA	127.00	149.00	138.00
NITZSCHIA DENTICULA		3.00	1.50
NITZSCHIA DISSIPATA	5.00	3.00	4.00
NITZSCHIA FRUSTULUM	27.00	27.00	27.00
NITZSCHIA HUNGARICA		3.00	1.50
NITZSCHIA LINEARIS	32.00		16.00
NITZSCHIA PALEA	32.00	54.00	43.00

2.4.2.868

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA VERMICULARIS		.08	.04
SURIRELLA OVATA	400.00	151.00	275.50
SURIRELLA OVALIS	11.00	5.00	8.00
GROUP MEAN			1095.03
EUGLENOPHYTA			
EUGLENA SPP	3.00		1.50
GROUP MEAN			1.50
PYRRHOPHYTA			
PERIDINIUM SPP	3.00	3.00	3.00
GROUP MEAN			3.00
CRYPTOPHYTA			
CRYPTOMONAS EROSA	11.00	3.00	7.00
GROUP MEAN			7.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	35.00	65.00	50.00
GROUP MEAN			50.00

2.4.2.869

G-7-2 (Continued)

SITE = 7

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I	27.00	27.00	27.00
GROUP MEAN			27.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	1744.00	2348.00	2046.00
TABELLARIA FLOCCULOSA	5.00		2.50
ACHNANTHES LANCEOLATA	11.00		5.50
ACHNANTHES MINUTISSIMA	197.00	157.00	177.00
NAVICULA ARVENSIS	24.00	5.00	14.50
NAVICULA CRYPTOCEPHALA	62.00	43.00	52.50
NAVICULA PELLICULOSA	286.00	297.00	291.50
NAVICULA VIRIDULA	3.00	5.00	4.00
NAVICULA SP 2	11.00		5.50
PINNULARIA BREBISSONII		5.00	2.50
PINNULARIA GLOBICEPS	3.00		1.50
AMPHORA OVALIS		5.00	2.50
GOMPHONEMA INTRICATUM	11.00	16.00	13.50
CYLINDROTHECA GRACILIS	5.00		2.50
HANTZSCHIA AMPHIOXYS		5.00	2.50
NITZSCHIA APICULATA	3.00		1.50

G-7-2 (Continued)

SITE = 7

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	8.00		4.00
NITZSCHIA DENTICULA	8.00		4.00
NITZSCHIA FRUSTULUM		43.00	21.50
NITZSCHIA LINEARIS	62.00	81.00	71.50
NITZSCHIA PALEA	3.00		1.50
SURIRELLA OVATA	5.00		2.50
GROUP MEAN			2730.50
EUGLENOPHYTA			
EUGLENA SPP	3.00		1.50
GROUP MEAN			1.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	92.00	227.00	159.50
GROUP MEAN			159.50

2.4.2.871

G-7-2 (Continued)

SITE = 8

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
SCENEDESMUS QUADRICAUDA	8.00		4.00
CHLOROPHYTA I	14.00	22.00	18.00
GROUP MEAN			22.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	236.00	211.00	223.50
MELOSIRA ITALICA	4.00		2.00
STEPHANODISCUS ASTRAEA	1.00		.50
TABELLARIA FLOCCULOSA	3.00		1.50
FRAGILARIA VAUCHERIAE	1.00		.50
ACHNANTHES LANCEOLATA	8.00	51.00	29.50
ACHNANTHES MINUTISSIMA	12.00	3.00	7.50
NAVICULA CRYPTOCEPHALA	1.00	14.00	7.50
NAVICULA PELLICULOSA	22.00	100.00	61.00
NAVICULA SP 2		3.00	1.50
PINNULARIA VIRIDIS	.02		.01
GOMPHONEMA INTRICATUM	1.00	3.00	2.00
CYLINDROTHECA GRACILIS		3.00	1.50
NITZSCHIA CAPITELLATA	1.00	3.00	2.00
NITZSCHIA HOLSATICA		5.00	2.50

G-7-2 (Continued)

SITE = B

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SURIRELLA OVALIS	.02		.01
GROUP MEAN			343.02
EUGLENOPHYTA			
EUGLENA PROXIMA	1.00	3.00	2.00
GROUP MEAN			2.00
CRYPTOPHYTA			
RHODOMONAS MINUTA		24.00	12.00
GROUP MEAN			12.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	32.00	76.00	54.00
GROUP MEAN			54.00

G-7-2 (Continued)

SITE = 9

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	5.00		2.50
GROUP MEAN			2.50
CHLOROPHYTA			
CLOSTERIUM LEIBLEINII	3.00		1.50
CHLOROPHYTA I	46.00	270.00	158.00
GROUP MEAN			159.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		151.00	75.50
STEPHANODISCUS TENUIS	3.00	11.00	7.00
MERIDION CIRCULARE	11.00	11.00	11.00
FRAGILARIA VAUCHERIAE	5.00		2.50
COCCONEIS PEDICULUS	8.00		4.00
ACHNANTHES LANCEOLATA	14.00	76.00	45.00
ACHNANTHES MINUTISSIMA	81.00	518.00	299.50
NAVICULA ARVENSIS	5.00	32.00	18.50
NAVICULA CRYPTOCEPHALA	103.00	367.00	235.00
NAVICULA MUTICA	3.00		1.50
NAVICULA PELLICULOSA	127.00	929.00	528.00

2.4.2.874

SITE = 9

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SP 2	16.00	86.00	51.00
CALONEIS BACILLUM		32.00	16.00
PINNULARIA BREBISSONII	8.00	22.00	15.00
CYMBELLA VENTRICOSA	3.00		1.50
GOMPHONEMA INTRICATUM	16.00	54.00	35.00
EPITHEMIA SOREX	5.00		2.50
CYLINDROTHECA GRACILIS	3.00		1.50
HANTZSCHIA AMPHIOXYS		11.00	5.50
NITZSCHIA CAPITELLATA	8.00	33.00	20.50
NITZSCHIA DENTICULA	3.00	22.00	12.50
NITZSCHIA DISSIPATA		11.00	5.50
NITZSCHIA FRUSTULUM	14.00	140.00	77.00
NITZSCHIA LINEARIS	254.00	443.00	348.50
NITZSCHIA TRYBLIONELLA	3.00		1.50
SURIRELLA OVATA	30.00	54.00	42.00
SURIRELLA OVALIS	8.00	22.00	15.00
GROUP MEAN			1878.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED		54.00	27.00
GROUP MEAN			27.00

2.4.2.875

G-7-2 (Continued)

SITE = 13

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP		3.00	1.50
GROUP MEAN			1.50
CHLOROPHYTA			
CHLOROPHYTA I	7.00	14.00	10.50
GROUP MEAN			10.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	18.00	143.00	80.50
MERIDION CIRCULARE	8.00	11.00	9.50
FRAGILARIA VAUCHERIAE	3.00		1.50
ACHNANTHES LANCEOLATA	32.00	22.00	27.00
ACHNANTHES MINUTISSIMA	14.00	8.00	11.00
GYROSIGMA ACUMINATUM		.04	.02
NAVICULA ARVENSIS	3.00		1.50
NAVICULA CRYPTOCEPHALA	45.00	22.00	33.50
NAVICULA PELLICULOSA	32.00	213.00	122.50
NAVICULA VIRIDULA	1.00		.50
NAVICULA SP 2	3.00		1.50
CALONEIS BACILLUM	1.00		.50

2.4.2.876

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
PINNULARIA VIRIDIS	3.00		1.50
GOMPHONEMA INTRICATUM	8.00	3.00	5.50
GOMPHONEMA OLIVACEUM	1.00		.50
GOMPHONEMA PARVULUM		3.00	1.50
NITZSCHIA ACICULARIS	1.00	5.00	3.00
NITZSCHIA CAPITELLATA	11.00	14.00	12.50
NITZSCHIA FRUSTULUM	3.00	3.00	3.00
NITZSCHIA LINEARIS	19.00	8.00	13.50
NITZSCHIA PALEA	3.00	8.00	5.50
SURIRELLA OVATA	20.00	5.00	12.50
GROUP MEAN			348.52
CRYPTOPHYTA			
CRYPTOMONAS EROSA		3.00	1.50
GROUP MEAN			1.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	14.00	49.00	31.50
GROUP MEAN			31.50

2.4.2.877

G-7-2 (Continued)

SITE = 14

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ANKISTRODESMUS CONVOLUTUS	11.00		5.50
CHLOROPHYTA I	86.00	65.00	75.50
GROUP MEAN			81.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	76.00	32.00	54.00
SYNEDRA AMPHICEPHALA	43.00	86.00	64.50
ACHNANTHES LANCEOLATA	43.00	11.00	27.00
ACHNANTHES MINUTISSIMA	43.00	43.00	43.00
NAVICULA ARVENSIS	32.00	11.00	21.50
NAVICULA CRYPTOCEPHALA	194.00	194.00	194.00
NAVICULA CUSPIDATA	.16		.08
NAVICULA PELLICULOSA	1879.00	1566.00	1722.50
NAVICULA SALINARUM VAR. INTERMEDIA		11.00	5.50
NAVICULA VIRIDULA		11.00	5.50
NAVICULA SP 2	22.00	43.00	32.50
CYMBELLA AFFINIS	11.00		5.50
NITZSCHIA ACICULARIS	22.00	11.00	16.50
NITZSCHIA CAPITELLATA	22.00	54.00	38.00
NITZSCHIA DENTICULA	11.00	22.00	16.50

2.4.2.878

SITE = 14

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA FRUSTULUM	43.00	54.00	48.50
NITZSCHIA HOLSATICA	724.00	1004.00	864.00
NITZSCHIA LINEARIS		65.00	32.50
GROUP MEAN			3191.58
EUGLENOPHYTA			
EUGLENA PROXIMA	22.00		11.00
EUGLENA SPP		65.00	32.50
GROUP MEAN			43.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	76.00	65.00	70.50
GROUP MEAN			70.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	3456.00	2938.00	3197.00
GROUP MEAN			3197.00

2.4.2.879

G-7-2 (Continued)

SITE = 15

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ULOTHRIX SPP	.44		.22
CHLOROPHYTA I	14.00	19.00	16.50
GROUP MEAN			16.72
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	1.00		.50
SYNEDRA MINUSCULA	1.00		.50
ACHNANTHES LANCEOLATA	3.00	5.00	4.00
NAVICULA ARVENSIS	1.00	5.00	3.00
NAVICULA CRYPTOCEPHALA	27.00	14.00	20.50
NAVICULA PELLICULOSA	139.00	591.00	365.00
NAVICULA SALINARUM VAR. INTERMEDIA	1.00	3.00	2.00
NAVICULA SPP	1.00		.50
PINNULARIA VIRIDIS	.02		.01
CYMBELLA MICROCEPHALA	1.00		.50
NITZSCHIA CAPITELLATA	11.00	27.00	19.00
NITZSCHIA LINEARIS		.08	.04
NITZSCHIA PALEA	1.00		.50
GROUP MEAN			416.05

SITE = 15

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA	1.00		.50
GROUP MEAN			.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	3.00		1.50
GROUP MEAN			1.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	24.00	92.00	58.00
GROUP MEAN			58.00

G-7-2 (Continued)

SITE = 17

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	3.00	5.00	4.00
ULOTHRIX SPP	.30		.15
STIGEOCLONIUM SPP	16.00		8.00
ANKISTRODESMUS CONVOLUTUS	3.00		1.50
CHLOROPHYTA I	27.00	32.00	29.50
GROUP MEAN			43.15
CHRYSOPHYTA			
DIATOMA TENUE	3.00		1.50
MERIDION CIRCULARE	5.00		2.50
SYNEDRA AMPHICEPHALA	32.00	11.00	21.50
NAVICULA ARVENSIS	5.00	5.00	5.00
NAVICULA CRYPTOCEPHALA	19.00	11.00	15.00
NAVICULA PELLICULOSA	270.00	343.00	306.50
NAVICULA TRIPUNCTATA	3.00		1.50
NAVICULA SP 2	14.00	16.00	15.00
GOMPHONEMA INTRICATUM	3.00		1.50
RHOPALODIA GIBBA	3.00		1.50
NITZSCHIA ACICULARIS	5.00	3.00	4.00
NITZSCHIA CAPITELLATA	30.00	27.00	28.50

2.4.2.882

SITE = 17

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA FRUSTULUM	8.00		4.00
NITZSCHIA GRACILIS	5.00		2.50
NITZSCHIA HOLSATICA		5.00	2.50
NITZSCHIA LINEARIS		3.00	1.50
NITZSCHIA PALEA	8.00		4.00
GROUP MEAN			418.50
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	783.00	597.00	690.00
GROUP MEAN			690.00

G-7-2 (Continued)

SITE = 18

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	.30		.15
GROUP MEAN			.15
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA		5.00	2.50
STIGEOCLONIUM SPP	1.04		.52
CHLOROPHYTA I	138.00	27.00	82.50
GROUP MEAN			85.52
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	5.00		2.50
FRAGILARIA VAUCHERIAE	3.00		1.50
SYNEDRA AMPHICEPHALA		14.00	7.00
ACHNANTHES LANCEOLATA	5.00		2.50
NAVICULA ARVENSIS	3.00	8.00	5.50
NAVICULA CRYPTOCEPHALA	24.00	22.00	23.00
NAVICULA PELLICULOSA	1007.00	532.00	769.50
NAVICULA VIRIDULA	11.00		5.50
NAVICULA SP 2	22.00	16.00	19.00
GOMPHONEMA PARVULUM	3.00		1.50

2.4.2.884

G-7-2 (Continued)

SITE = 18

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA VENTRICOSUM	3.00		1.50
NITZSCHIA ACICULARIS		3.00	1.50
NITZSCHIA CAPITELLATA	59.00	51.00	55.00
NITZSCHIA FRUSTULUM	3.00	3.00	3.00
NITZSCHIA HOLSATICA		11.00	5.50
NITZSCHIA PALEA	5.00	14.00	9.50
GROUP MEAN			913.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	959.00	1245.00	1102.00
GROUP MEAN			1102.00

G-7-2 (Continued)

SITE = 19

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	32.00	11.00	21.50
GROUP MEAN			21.50
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	5.00		2.50
SCENEDESMUS QUADRICAUDA	32.00		16.00
CHLOROPHYTA I	49.00	65.00	57.00
GROUP MEAN			75.50
CHRYSOPHYTA			
BICOECA LACUSTRIS		86.00	43.00
THALASSIOSIRA FLUVIATILIS	16.00		8.00
CYCLOTELLA MENEGHINIANA		5.00	2.50
FRAGILARIA CONSTRUENS	27.00		13.50
FRAGILARIA CROTONENSIS	27.00		13.50
FRAGILARIA VAUCHERIAE		5.00	2.50
SYNEDRA AMPHICEPHALA	108.00	65.00	86.50
ACHNANTHES MINUTISSIMA	22.00	32.00	27.00
RHOICOSPHENIA CURVATA		5.00	2.50
GYROSIGMA ACUMINATUM	5.00	22.00	13.50

2.4.2.886

SITE = 19

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
PLEUROSIGMA DELICATULUM	5.00		2.50
NAVICULA ARVENSIS	32.00	16.00	24.00
NAVICULA CRYPTOCEPHALA	556.00	313.00	434.50
NAVICULA CUSPIDATA	11.00		5.50
NAVICULA MUTICA		16.00	8.00
NAVICULA PELLICULOSA	113.00	92.00	102.50
NAVICULA TRIPUNCTATA	16.00	5.00	10.50
NAVICULA VIRIDULA	11.00		5.50
NAVICULA SP 1	16.00		8.00
NAVICULA SP 2	702.00	583.00	642.50
CALONEIS BACILLUM	27.00	16.00	21.50
PINNULARIA BOREALIS	5.00		2.50
PINNULARIA BREBISSONII	65.00	5.00	35.00
PINNULARIA GLOBICEPS	49.00	16.00	32.50
CYMBELLA AFFINIS	5.00		2.50
CYMBELLA VENTRICOSA	5.00		2.50
GOMPHONEMA OLIVACEUM		16.00	8.00
GOMPHONEMA PARVULUM		5.00	2.50
AMPHIPRORA ALATA	22.00	32.00	27.00
EPITHEMIA ZEBRA	16.00		8.00

2.4.2.887

G-7-2 (Continued)

SITE = 19

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
RHOPALODIA GIBBA	11.00		5.50
RHOPALODIA GIBBERULA		16.00	8.00
CYLINDROTHECA GRACILIS	49.00	27.00	38.00
HANTZSCHIA AMPHIOXYS	5.00		2.50
NITZSCHIA ACICULARIS	5.00		2.50
NITZSCHIA APICULATA	43.00	11.00	27.00
NITZSCHIA CAPITELLATA	135.00	124.00	129.50
NITZSCHIA DISSIPATA		11.00	5.50
NITZSCHIA FRUSTULUM	275.00	454.00	364.50
NITZSCHIA GRACILIS	38.00	22.00	30.00
NITZSCHIA HOLSATICA	43.00	151.00	97.00
NITZSCHIA LINEARIS		11.00	5.50
NITZSCHIA PALEA	76.00	70.00	73.00
SURIRELLA OVATA	378.00	265.00	321.50
SURIRELLA OVALIS	5.00		2.50
GROUP MEAN			2710.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	38.00	59.50
GROUP MEAN			59.50

2.4.2.888

G-7-2 (Continued)

SITE = 20

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ULOTHRIX SPP	5.74		2.87
STIGEOCLONIUM SPP		1.84	.92
CHLOROPHYTA I	324.00	135.00	229.50
GROUP MEAN			233.29
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	135.00	108.00	121.50
FRAGILARIA VAUCHERIAE	405.00	1161.00	783.00
SYNEDRA AMPHICEPHALA	2214.00	486.00	1350.00
SYNEDRA MINUSCULA	108.00		54.00
SYNEDRA PULCHELLA	297.00	432.00	364.50
ACHNANTHES LANCEOLATA	27.00		13.50
NAVICULA CRYPTOCEPHALA	189.00	108.00	148.50
NAVICULA PELLICULOSA	486.00	162.00	324.00
NAVICULA SALINARUM	81.00		40.50
NAVICULA VIRIDULA	27.00		13.50
PINNULARIA BREBISSONII	27.00		13.50
CYMBELLA AFFINIS	27.00		13.50
CYMBELLA VENTRICOSA		27.00	13.50
GOMPHONEMA INTRICATUM		54.00	27.00

2.4.2.889

G-7-2 (Continued)

SITE = 20

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHIPRORA ALATA	270.00	162.00	216.00
CYLINDROTHECA GRACILIS		27.00	13.50
NITZSCHIA APICULATA	54.00		27.00
NITZSCHIA CAPITELLATA	7047.00	5832.00	6439.50
NITZSCHIA DENTICULA	54.00		27.00
NITZSCHIA FRUSTULUM	108.00	27.00	67.50
NITZSCHIA HUNGARICA		27.00	13.50
NITZSCHIA LINEARIS	54.00		27.00
NITZSCHIA PALEA	216.00	27.00	121.50
SURIRELLA OVATA	16524.00	11880.00	14202.00
SURIRELLA OVALIS		27.00	13.50
GROUP MEAN			24448.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	1215.00	486.00	850.50
GROUP MEAN			850.50

2.4.2.890

G-7-2 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ULOTHRIX SPP	57.74		28.87
CHLOROPHYTA I	162.00	162.00	162.00
GROUP MEAN			190.87
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA		27.00	13.50
FRAGILARIA CAPUCINA	648.00		324.00
FRAGILARIA CONSTRUENS	54.00		27.00
FRAGILARIA VAUCHERIAE	162.00	756.00	459.00
SYNEDRA AMPHICEPHALA	1296.00		648.00
SYNEDRA MINUSCULA	54.00	432.00	243.00
SYNEDRA PULCHELLA	108.00	243.00	175.50
ACHNANTHES LANCEOLATA		27.00	13.50
ACHNANTHES MINUTISSIMA		54.00	27.00
GYROSIGMA ACUMINATUM	27.00		13.50
NAVICULA CRYPTOCEPHALA	189.00	270.00	229.50
NAVICULA PELLICULOSA	567.00		283.50
NAVICULA SALINARUM	162.00	27.00	94.50
NAVICULA VIRIDULA		54.00	27.00
GOMPHONEMA INTRICATUM	27.00		13.50

2.4.2.891

G-7-2 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA PARVULUM	27.00		13.50
AMPHIPRORA ALATA	81.00	108.00	94.50
NITZSCHIA APICULATA	27.00	27.00	27.00
NITZSCHIA CAPITELLATA	7938.00	4293.00	6115.50
NITZSCHIA HUNGARICA	54.00		27.00
NITZSCHIA LINEARIS	54.00	27.00	40.50
NITZSCHIA PALEA	162.00		81.00
SURIRELLA OVATA	16308.00	10449.00	13378.50
SURIRELLA OVALIS	27.00		13.50
GROUP MEAN			22383.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	1566.00	54.00	810.00
GROUP MEAN			810.00

2.4.2.892

SITE = 22

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ULOTHRIX SPP	1.70		.85
CHLOROPHYTA I	270.00	270.00	270.00
GROUP MEAN			270.85
CHRYSOPHYTA			
MELOSIRA VARIANS		.04	.02
CYCLOTELLA MENEGHINIANA	108.00		54.00
FRAGILARIA CAPUCINA	594.00		297.00
FRAGILARIA VAUCHERIAE	162.00	459.00	310.50
SYNEDRA AMPHICEPHALA	459.00	810.00	634.50
SYNEDRA MINUSCULA	216.00	27.00	121.50
SYNEDRA PULCHELLA	108.00	162.00	135.00
ACHNANTHES LANCEOLATA		108.00	54.00
NAVICULA ARVENSIS	81.00		40.50
NAVICULA CRYPTOCEPHALA	54.00	81.00	67.50
NAVICULA PELLICULOSA	243.00	27.00	135.00
NAVICULA SALINARUM	27.00	27.00	27.00
PINNULARIA BREBISSONII		27.00	13.50
GOMPHONEMA INTRICATUM		27.00	13.50
AMPHIPRORA ALATA	135.00		67.50

2.4.2.893

G-7-2 (Continued)

SITE = 22

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA ACICULARIS		27.00	13.50
NITZSCHIA APICULATA		27.00	13.50
NITZSCHIA CAPITELLATA	4077.00	4482.00	4279.50
NITZSCHIA FRUSTULUM	81.00		40.50
NITZSCHIA HOLSATICA	162.00		81.00
NITZSCHIA PALEA	81.00	135.00	108.00
SURIRELLA OVATA	10827.00	9234.00	10030.50
GROUP MEAN			16537.52
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	2052.00	486.00	1269.00
GROUP MEAN			1269.00

2.4.2.894

SITE = 23

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP		16.00	8.00
OSCILLATORIA TENUIS		5.00	2.50
OSCILLATORIA SPP	.20		.10
GROUP MEAN			10.60
CHLOROPHYTA			
STIGEOCLONIUM SPP	1.92		.96
SELENASTRUM MINUTUM		22.00	11.00
SCENEDESMUS QUADRICAUDA	22.00		11.00
CHLOROPHYTA I	32.00	38.00	35.00
GROUP MEAN			57.96
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	49.00		24.50
STEPHANODISCUS SPP		49.00	24.50
DIATOMA VULGARE		5.00	2.50
FRAGILARIA CONSTRUENS		200.00	100.00
FRAGILARIA CROTONENSIS		11.00	5.50
FRAGILARIA LEPTOSTAURUN	27.00	11.00	19.00
FRAGILARIA PINNATA	16.00	22.00	19.00

G-7-2 (Continued)

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA VAUCHERIAE		49.00	24.50
SYNEDRA AMPHICEPHALA	16.00		8.00
COCCONEIS PEDICULUS	32.00	16.00	24.00
COCCONEIS PLACENTULA		5.00	2.50
ACHNANTHES MINUTISSIMA	22.00	49.00	35.50
RHOICOSPHENIA CURVATA		11.00	5.50
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	151.00	119.00	135.00
NAVICULA PELLICULOSA	22.00	49.00	35.50
NAVICULA SALINARUM	5.00		2.50
NAVICULA SALINARUM VAR. INTERMEDIA	11.00	5.00	8.00
NAVICULA TRIPUNCTATA	130.00	38.00	84.00
NAVICULA VIRIDULA	529.00	356.00	442.50
AMPHORA OVALIS		5.00	2.50
AMPHORA OVALIS VAR. PEDICULUS		5.00	2.50
CYMBELLA AFFINIS	11.00	16.00	13.50
CYMBELLA SINUATA		5.00	2.50
CYMBELLA VENTRICOSA	108.00	54.00	81.00
GOMPHONEMA INTRICATUM	11.00	11.00	11.00
GOMPHONEMA OLIVACEUM	38.00	189.00	113.50

2.4.2.896

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA VENTRICOSUM	81.00		40.50
EPITHEMIA SOREX	5.00	11.00	8.00
NITZSCHIA ACICULARIS	5.00		2.50
NITZSCHIA CAPITELLATA	5.00	16.00	10.50
NITZSCHIA DISSIPATA	27.00	38.00	32.50
NITZSCHIA FRUSTULUM	11.00	22.00	16.50
NITZSCHIA HOLSATICA	5.00		2.50
NITZSCHIA PALEA	5.00		2.50
CYMATOPLEURA SOLEA	.02		.01
SURIRELLA OVATA	5.00	22.00	13.50
GROUP MEAN			1360.51
EUGLENOPHYTA			
EUGLENA SPP		5.00	2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	70.00	22.00	46.00
GROUP MEAN			46.00

G-7-2 (Continued)

SITE = 24

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS		11.00	5.50
OSCILLATORIA SPP	22.00		11.00
GROUP MEAN			16.50
CHLOROPHYTA			
ULOTHRIX SPP	.28		.14
STIGEOCLONIUM SPP	.40		.20
ANKISTRODESMUS FALCATUS		11.00	5.50
CHLOROPHYTA I	32.00	54.00	43.00
GROUP MEAN			48.84
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	22.00	43.00	32.50
CYCLOTELLA MENEGHINIANA		11.00	5.50
DIATOMA VULGARE	11.00	43.00	27.00
FRAGILARIA CAPUCINA	292.00		146.00
FRAGILARIA LEPTOSTAURON	76.00	11.00	43.50
FRAGILARIA PINNATA	97.00		48.50
FRAGILARIA VAUCHERIAE	54.00	43.00	48.50
COCCONEIS PEDICULUS	11.00	22.00	16.50

2.4.2.898

SITE = 24

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA	54.00	22.00	38.00
NAVICULA CRYPTOCEPHALA	140.00	205.00	172.50
NAVICULA PELLICULOSA		22.00	11.00
NAVICULA SALINARUM VAR. INTERMEDIA	11.00	11.00	11.00
NAVICULA TRIPUNCTATA	54.00	76.00	65.00
NAVICULA VIRIDULA	583.00	378.00	480.50
CYMBELLA AFFINIS	32.00	22.00	27.00
CYMBELLA VENTRICOSA	22.00	22.00	22.00
GOMPHONEMA OLIVACEUM	173.00	140.00	156.50
GOMPHONEMA VENTRICOSUM	65.00		32.50
EPITHEMIA SOREX	11.00	11.00	11.00
NITZSCHIA ACICULARIS	11.00		5.50
NITZSCHIA CAPITELLATA	11.00	43.00	27.00
NITZSCHIA DISSIPATA	108.00	97.00	102.50
NITZSCHIA FRUSTULUM		65.00	32.50
GROUP MEAN			1562.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	162.00	43.00	102.50
GROUP MEAN			102.50

G-7-2 (Continued)

SITE = 25

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP		22.00	11.00
GROUP MEAN			11.00
CHLOROPHYTA			
ULOTHRIX SPP	11.00		5.50
STIGEOCLONIUM SPP	1.30		.65
CHLOROPHYTA I	43.00	32.00	37.50
GROUP MEAN			43.65
CHRYSOPHYTA			
MELOSIRA DISTANS	22.00		11.00
THALASSIOSIRA FLUVIATILIS	22.00		11.00
STEPHANODISCUS SPP		43.00	21.50
DIATOMA HIEMALE		11.00	5.50
DIATOMA VULGARE		65.00	32.50
FRAGILARIA LEPTOSTAURON		22.00	11.00
FRAGILARIA PINNATA		43.00	21.50
FRAGILARIA VAUCHERIAE	11.00	11.00	11.00
HANNAEA ARCUS		22.00	11.00
SYNEDRA AMPHICEPHALA	11.00		5.50

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SYNEDRA ULNA	11.00		5.50
COCCONEIS PEDICULUS		11.00	5.50
ACHNANTHES LANCEOLATA	11.00		5.50
ACHNANTHES MINUTISSIMA	22.00	22.00	22.00
NAVICULA CRYPTOCEPHALA	76.00	54.00	65.00
NAVICULA PELLICULOSA	22.00	22.00	22.00
NAVICULA SALINARUM VAR. INTERMEDIA		11.00	5.50
NAVICULA TRIPUNCTATA	54.00	130.00	92.00
NAVICULA VIRIDULA	518.00	702.00	610.00
AMPHORA OVALIS		11.00	5.50
AMPHORA OVALIS VAR. PEDICULJS		32.00	16.00
CYMBELLA AFFINIS		43.00	21.50
CYMBELLA VENTRICOSA	54.00	43.00	48.50
GOMPHONEMA OLIVACEUM	97.00	205.00	151.00
GOMPHONEMA VENTRICOSUM	11.00	11.00	11.00
EPITHEMIA SOREX	32.00	32.00	32.00
NITZSCHIA CAPITELLATA	22.00	32.00	27.00
NITZSCHIA DISSIPATA	97.00	140.00	118.50
NITZSCHIA FRUSTULUM		43.00	21.50
NITZSCHIA LINEARIS		11.00	5.50

G-7-2 (Continued)

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SURIRELLA OVATA	11.00	22.00	16.50
GROUP MEAN			1449.00
CRYPTOPHYTA			
CRYPTOMONAS EROSA	11.00	11.00	11.00
GROUP MEAN			11.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	86.00		43.00
GROUP MEAN			43.00

G-7-2 (Continued)

SITE = 26

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	22.00		11.00
OSCILLATORIA TENUIS	16.00		8.00
GROUP MEAN			19.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	1.16		.58
SCENEDESMUS QUADRICAUDA		43.00	21.50
CHLOROPHYTA I	54.00	65.00	59.50
GROUP MEAN			81.58
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	11.00	76.00	43.50
DIATOMA HIEMALE	5.00		2.50
DIATOMA VULGARE	16.00	43.00	29.50
FRAGILARIA LEPTOSTAURON	16.00	11.00	13.50
FRAGILARIA VAUCHERIAE		11.00	5.50
ACHNANTHES MINUTISSIMA	11.00	54.00	32.50
GYROSIGMA ACUMINATUM		11.00	5.50
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	135.00	65.00	100.00

G-7-2 (Continued)

SITE = 26

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA CUSPIDATA	.02		.01
NAVICULA PELLICULOSA	22.00	32.00	27.00
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA TRIPUNCTATA	65.00	65.00	65.00
NAVICULA VIRIDULA	583.00	432.00	507.50
NAVICULA SPP		22.00	11.00
PINNULARIA GLOBICEPS		11.00	5.50
CYMBELLA AFFINIS	11.00	22.00	16.50
CYMBELLA SINUATA	5.00		2.50
CYMBELLA VENTRICOSA	49.00	108.00	78.50
GOMPHONEMA OLIVACEUM	135.00	130.00	132.50
EPITHEMIA SOREX	11.00	11.00	11.00
CYLINDROTHECA GRACILIS	5.00	11.00	8.00
NITZSCHIA ACICULARIS	5.00		2.50
NITZSCHIA CAPITELLATA	22.00	54.00	38.00
NITZSCHIA DISSIPATA	76.00	130.00	103.00
NITZSCHIA FRUSTULUM		32.00	16.00
NITZSCHIA LINEARIS	5.00		2.50
CYMATOPLEURA SOLEA	.04		.02
SURIRELLA OVATA	16.00	32.00	24.00
GROUP MEAN			1288.53

2.4.2.904

G-7-2 (Continued)

SITE = 26

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	22.00		11.00
GROUP MEAN			11.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	65.00	11.00	38.00
GROUP MEAN			38.00

G-7-2 (Continued)

SITE = 27

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP		16.00	8.00
GROUP MEAN			8.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.34		.17
CLADOPHORA SPP	.42		.21
CHLOROPHYTA I	27.00	65.00	46.00
GROUP MEAN			46.38
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		11.00	5.50
THALASSIOSIRA FLUVIATILIS	22.00		11.00
STEPHANODISCUS ASTRAEA		49.00	24.50
STEPHANODISCUS TENUIS	5.00		2.50
DIATOMA VULGARE	11.00	38.00	24.50
FRAGILARIA CONSTRUENS		49.00	24.50
FRAGILARIA LEPTOSTAURON	27.00	16.00	21.50
FRAGILARIA PINNATA	65.00		32.50
FRAGILARIA VAUCHERIAE		32.00	16.00
HANNAEA ARCUS	5.00	5.00	5.00

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SYNEDRA ULNA	5.00		2.50
COCCONEIS PEDICULUS	11.00	16.00	13.50
ACHNANTHES LANCEOLATA	21.00		10.50
DIPLONEIS ELLIPTICA	5.00		2.50
NAVICULA CRYPTOCEPHALA	108.00	151.00	129.50
NAVICULA PELLICULOSA		27.00	13.50
NAVICULA PUPULA		5.00	2.50
NAVICULA SALINARUM VAR. INTERMEDIA	16.00	5.00	10.50
NAVICULA TRIPUNCTATA	97.00	65.00	81.00
NAVICULA VIRIDULA	529.00	437.00	483.00
NAVICULA SP 2		5.00	2.50
CALONEIS AMPHISBAENA	5.00	.08	2.54
CALONEIS BACILLUM		5.00	2.50
AMPHORA OVALIS VAR. PEDICULJS	5.00	11.00	8.00
CYMBELLA AFFINIS	5.00	32.00	18.50
CYMBELLA MEXICANA		.04	.02
CYMBELLA VENTRICOSA	54.00	92.00	73.00
GOMPHONEMA INTRICATUM	11.00	5.00	8.00
GOMPHONEMA OLIVACEUM	167.00	124.00	145.50
GOMPHONEMA VENTRICOSUM	5.00	11.00	8.00

G-7-2 (Continued)

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
EPITHEMIA SOREX	22.00	22.00	22.00
NITZSCHIA CAPITELLATA	5.00		2.50
NITZSCHIA DISSIPATA	54.00	76.00	65.00
NITZSCHIA FRUSTULUM	5.00	27.00	16.00
NITZSCHIA PALEA	5.00		2.50
NITZSCHIA VERMICULARIS		.04	.02
CYMATOPLEURA SOLEA	.02	.04	.03
SURIRELLA OVATA		11.00	5.50
GROUP MEAN			1298.61
EUGLENOPHYTA			
EUGLENA PROXIMA		5.00	2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	38.00	22.00	30.00
GROUP MEAN			30.00

G-7-2 (Continued)

SITE = 28

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	5.00		2.50
GROUP MEAN			2.50
CHLOROPHYTA			
ULOTHRIX SPP	.20		.10
CHLOROPHYTA I	38.00	81.00	59.50
GROUP MEAN			59.60
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	27.00	11.00	19.00
CYCLOTELLA MENEGHINIANA	32.00	16.00	24.00
STEPHANODISCUS TENUIS	11.00		5.50
DIATOMA VULGARE	54.00	16.00	35.00
FRAGILARIA CONSTRUENS	27.00	27.00	27.00
FRAGILARIA PINNATA		16.00	8.00
FRAGILARIA VAUCHERIAE	70.00	43.00	56.50
SYNEDRA AMPHICEPHALA	92.00	75.00	83.50
SYNEDRA PULCHELLA	5.00		2.50
COCCONEIS PEDICULUS	5.00		2.50
ACHNANTHES LANCEOLATA	16.00		8.00

G-7-2 (Continued)

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA	11.00		5.50
NAVICULA ARVENSIS	5.00	5.00	5.00
NAVICULA CRYPTOCEPHALA	119.00	70.00	94.50
NAVICULA PELLICULOSA	22.00	43.00	32.50
NAVICULA SALINARUM		5.00	2.50
NAVICULA SALINARUM VAR. INTERMEDIA	16.00		8.00
NAVICULA TRIPUNCTATA	81.00	59.00	70.00
NAVICULA VIRIDULA	470.00	254.00	362.00
AMPHORA OVALIS VAR. PEDICULUS	11.00	27.00	19.00
CYMBELLA AFFINIS	5.00	11.00	8.00
CYMBELLA SINUATA	5.00		2.50
CYMBELLA VENTRICOSA	32.00	27.00	29.50
GOMPHONEMA INTRICATUM	16.00	5.00	10.50
GOMPHONEMA OLIVACEUM	167.00	86.00	126.50
GOMPHONEMA VENTRICOSUM		16.00	8.00
AMPHIPRORA ALATA	11.00	32.00	21.50
EPITHEMIA SOREX	16.00	11.00	13.50
CYLINDROTHECA GRACILIS		5.00	2.50
NITZSCHIA ACICULARIS	11.00		5.50
NITZSCHIA APICULATA	5.00	22.00	13.50

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	913.00	1161.00	1037.00
NITZSCHIA DISSIPATA	76.00	59.00	67.50
NITZSCHIA FRUSTULUM	43.00	22.00	32.50
NITZSCHIA HOLSATICA	49.00		24.50
NITZSCHIA PALEA	32.00	27.00	29.50
NITZSCHIA VERMICULARIS	.02		.01
SURIRELLA OVATA	1674.00	2133.00	1903.50
SURIRELLA OVALIS	5.00	11.00	8.00
GROUP MEAN			4214.51
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	32.00	11.00	21.50
GROUP MEAN			21.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	227.00	378.00	302.50
GROUP MEAN			302.50

G-7-2 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	11.00	5.00	8.00
GROUP MEAN			8.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	16.00	.36	8.18
CLADOPHORA SPP	.12		.06
CHLOROPHYTA I	49.00	81.00	65.00
GROUP MEAN			73.24
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	38.00		19.00
STEPHANODISCUS ASTRAEA		38.00	19.00
DIATOMA VULGARE	59.00	59.00	59.00
FRAGILARIA LEPTOSTAURON		22.00	11.00
FRAGILARIA PINNATA	27.00	11.00	19.00
FRAGILARIA VAUCHERIAE	16.00	27.00	21.50
HANNAEA ARCUS		5.00	2.50
SYNEDRA AMPHICEPHALA	22.00		11.00
COCCONEIS PEDICULUS		22.00	11.00
ACHNANTHES LANCEOLATA	11.00	11.00	11.00

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA		27.00	13.50
NAVICULA CRYPTOCEPHALA	70.00	108.00	89.00
NAVICULA PELLICULOSA	16.00	97.00	56.50
NAVICULA SALINARUM VAR. INTERMEDIA	22.00	5.00	13.50
NAVICULA TRIPUNCTATA	27.00	86.00	56.50
NAVICULA VIRIDULA	351.00	464.00	407.50
CALONEIS AMPHISBAENA		.02	.01
AMPHORA OVALIS VAR. PEDICULUS	5.00	16.00	10.50
CYMBELLA AFFINIS	5.00	16.00	10.50
CYMBELLA VENTRICOSA	54.00	27.00	40.50
GOMPHONEMA OLIVACEUM	113.00	194.00	153.50
GOMPHONEMA VENTRICOSUM	11.00		5.50
AMPHIPRORA ALATA	5.00	16.00	10.50
EPITHEMIA SOREX	22.00	27.00	24.50
CYLINDROTHECA GRACILIS		5.00	2.50
HANTZSCHIA AMPHIOXYS		5.00	2.50
NITZSCHIA CAPITELLATA	38.00		19.00
NITZSCHIA DISSIPATA	70.00	86.00	78.00
NITZSCHIA FRUSTULUM	16.00	11.00	13.50
NITZSCHIA HOLSATICA		5.00	2.50

G-7-2 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA VERMICULARIS		.02	.01
CYMATOPLEURA SOLEA	5.00	.04	2.52
SURIRELLA OVATA	22.00	11.00	16.50
GROUP MEAN			1213.04
EUGLENOPHYTA			
EUGLENA PROXIMA	11.00		5.50
GROUP MEAN			5.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	11.00		5.50
GROUP MEAN			5.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	27.00	54.00
GROUP MEAN			54.00

2.4.2.914

SITE = 30

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	32.00		16.00
GROUP MEAN			16.00
CHLOROPHYTA			
CHLOROPHYTA I	32.00	22.00	27.00
GROUP MEAN			27.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		65.00	32.50
THALASSIOSIRA FLUVIATILIS	5.00	22.00	13.50
STEPHANODISCUS ASTRAEA		27.00	13.50
DIATOMA VULGARE	5.00	16.00	10.50
FRAGILARIA CONSTRUENS	32.00	27.00	29.50
FRAGILARIA LEPTOSTAURON	5.00		2.50
FRAGILARIA PINNATA	32.00		16.00
FRAGILARIA VAUCHERIAE	5.00	11.00	8.00
CUCCONEIS PLACENTULA		11.00	5.50
ACHNANTHES MINUTISSIMA	11.00	16.00	13.50
RHOICOSPHENIA CURVATA	5.00		2.50
NAVICULA CRYPTOCEPHALA	65.00	65.00	65.00

2.4.2.915

G-7-2 (Continued)

SITE = 30

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	16.00	16.00	16.00
NAVICULA SALINARUM VAR. INTERMEDIA	11.00	11.00	11.00
NAVICULA TRIPUNCTATA	59.00	27.00	43.00
NAVICULA VIRIDULA	443.00	200.00	321.50
NAVICULA SP 2	5.00		2.50
CALONEIS AMPHISBAENA	.10		.05
CALONEIS BACILLUM		5.00	2.50
AMPHORA OVALIS VAR. PEDICULUS		5.00	2.50
CYMBELLA AFFINIS	32.00	27.00	29.50
CYMBELLA VENTRICOSA	59.00	43.00	51.00
GOMPHONEMA OLIVACEUM	146.00	103.00	124.50
GOMPHONEMA VENTRICOSUM	16.00	5.00	10.50
EPITHEMIA SOREX	38.00	22.00	30.00
NITZSCHIA ACICULARIS		5.00	2.50
NITZSCHIA CAPITELLATA	5.00	5.00	5.00
NITZSCHIA DISSIPATA	65.00	70.00	67.50
NITZSCHIA FRUSTULUM		5.00	2.50
SURIRELLA OVATA	16.00	16.00	16.00
GROUP MEAN			950.55

SITE = 30

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA		11.00	5.50
GROUP MEAN			5.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	113.00	83.50
GROUP MEAN			83.50

G-7-2 (Continued)

SITE = 31

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	16.00		8.00
OSCILLATORIA TENUIS	5.00		2.50
ANABAENA SPP	5.00		2.50
GROUP MEAN			13.00
CHLOROPHYTA			
ULOTHRIX SPP	.22		.11
STIGEOCLONIUM SPP	.16	.40	.28
CLADOPHORA SPP	.32		.16
CHLOROPHYTA I	43.00	108.00	75.50
GROUP MEAN			76.05
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		5.00	2.50
THALASSIOSIRA FLUVIATILIS	54.00		27.00
STEPHANODISCUS ASTRAEA		70.00	35.00
STEPHANODISCUS TENUIS	11.00		5.50
DIATOMA TENUE	5.00		2.50
DIATOMA VULGARE	108.00	54.00	81.00
FRAGILARIA CONSTRUENS		22.00	11.00

2.4.2.918

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA LEPTOSTAURON	5.00	76.00	40.50
FRAGILARIA PINNATA		11.00	5.50
FRAGILARIA VAUCHERIAE	54.00	11.00	32.50
HANNAEA ARCUS	5.00	5.00	5.00
SYNEDRA PULCHELLA	11.00		5.50
COCCONEIS PEDICULUS	11.00	5.00	8.00
ACHNANTHES LANCEOLATA		11.00	5.50
ACHNANTHES MINUTISSIMA	11.00	43.00	27.00
NAVICULA ARVENSIS		11.00	5.50
NAVICULA CRYPTOCEPHALA	108.00	173.00	140.50
NAVICULA PELLICULOSA	65.00	43.00	54.00
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA TRIPUNCTATA	178.00	103.00	140.50
NAVICULA VIRIDULA	988.00	697.00	842.50
CALONEIS AMPHISBAENA		.18	.09
AMPHORA OVALIS VAR. PEDICULUS	11.00	32.00	21.50
CYMBELLA AFFINIS	16.00	11.00	13.50
CYMBELLA SINUATA	5.00	11.00	8.00
CYMBELLA VENTRICOSA	81.00	86.00	83.50
DIDYMOSPHENIA GEMINATA	.02		.01

G-7-2 (Continued)

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA OLIVACEUM	340.00	297.00	318.50
GOMPHONEMA VENTRICOSUM	70.00		35.00
EPITHEMIA SOREX	27.00	22.00	24.50
CYLINDROTHECA GRACILIS	5.00		2.50
NITZSCHIA ACICULARIS	16.00		8.00
NITZSCHIA CAPITELLATA	43.00	5.00	24.00
NITZSCHIA DISSIPATA	70.00	86.00	78.00
NITZSCHIA FRUSTULUM	70.00	49.00	59.50
NITZSCHIA HOLSATICA		38.00	19.00
NITZSCHIA LINEARIS	5.00		2.50
NITZSCHIA VERMICULARIS	.02		.01
CYMATOPLEURA SOLEA	.04	.10	.07
SURIRELLA OVATA	43.00	32.00	37.50
GROUP MEAN			2215.18
CRYPTOPHYTA			
CRYPTOMONAS EROSA	27.00	5.00	16.00
GROUP MEAN			16.00

G-7-2 (Continued)

SITE = 31

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	92.00	22.00	57.00
GROUP MEAN			57.00

G-7-2 (Continued)

SITE = 32

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS		11.00	5.50
OSCILLATORIA SPP	5.00		2.50
ANABAENA SPP		11.00	5.50
CALOTHRIX SPP	5.00	5.00	5.00
GROUP MEAN			18.50
CHLOROPHYTA			
ULOTHRIX SPP	.50		.25
STIGEOCLONIUM SPP	16.00		8.00
CHLOROPHYTA I	38.00	54.00	46.00
GROUP MEAN			54.25
CHRYSOPHYTA			
STEPHANODISCUS ASTRAEA		27.00	13.50
STEPHANODISCUS TENUIS	11.00		5.50
DIATOMA VULGARE	70.00	38.00	54.00
FRAGILARIA CONSTRUENS	32.00		16.00
FRAGILARIA LEPTOSTAURON	22.00	22.00	22.00
FRAGILARIA PINNATA	103.00	16.00	59.50
FRAGILARIA VAUCHERIAE	43.00		21.50

2.4.2.922

G-7-2 (Continued)

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
HANNAEA ARCUS	11.00		5.50
SYNEDRA ULNA	11.00	11.00	11.00
COCCONEIS PEDICULUS	16.00	81.00	48.50
ACHNANTHES MINUTISSIMA	11.00	27.00	19.00
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	135.00	97.00	116.00
NAVICULA PELLICULOSA	59.00	38.00	48.50
NAVICULA SALINARUM VAR. INTERMEDIA	11.00	5.00	8.00
NAVICULA TRIPUNCTATA	97.00	81.00	89.00
NAVICULA VIRIDULA	497.00	513.00	505.00
CALONEIS AMPHISBAENA		.08	.04
AMPHORA OVALIS VAR. PEDICULUS		11.00	5.50
CYMBELLA AFFINIS	22.00	27.00	24.50
CYMBELLA SINUATA		11.00	5.50
CYMBELLA VENTRICOSA	92.00	108.00	100.00
GOMPHONEMA INTRICATUM	22.00		11.00
GOMPHONEMA OLIVACEUM	319.00	281.00	300.00
GOMPHONEMA VENTRICOSUM	16.00	5.00	10.50
EPITHEMIA SOREX	16.00	5.00	10.50
NITZSCHIA APICULATA	5.00		2.50

2.4.2.923

G-7-2 (Continued)

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	32.00	32.00	32.00
NITZSCHIA DISSIPATA	103.00	32.00	67.50
NITZSCHIA FRUSTULUM		32.00	16.00
NITZSCHIA GRACILIS	11.00		5.50
NITZSCHIA HOLSATICA		86.00	43.00
NITZSCHIA LINEARIS		22.00	11.00
NITZSCHIA PALEA	16.00		8.00
NITZSCHIA VERMICULARIS	.02		.01
CYMATOPLEURA SOLEA	5.00	.08	2.54
SURIRELLA OVATA	27.00	27.00	27.00
GROUP MEAN			1727.59
CRYPTOPHYTA			
CRYPTOMONAS EROSA	11.00		5.50
GROUP MEAN			5.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	104.00	22.00	63.00
GROUP MEAN			63.00

2.4.2.924

G-7-2 (Continued)

SITE = 33

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS		32.00	16.00
ANABAENA SPP	5.00		2.50
GROUP MEAN			18.50
CHLOROPHYTA			
STIGEOCLONIUM SPP	.36		.18
CHLOROPHYTA I	76.00	43.00	59.50
GROUP MEAN			59.68
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	32.00		16.00
CYCLOTELLA MENEGHINIANA	5.00		2.50
STEPHANODISCUS ASTRAEA		38.00	19.00
STEPHANODISCUS TENUIS	11.00		5.50
DIATOMA VULGARE	38.00	43.00	40.50
FRAGILARIA CONSTRUENS	54.00	5.00	29.50
FRAGILARIA LEPTOSTAURON	59.00	11.00	35.00
FRAGILARIA PINNATA	49.00	16.00	32.50
FRAGILARIA VAUCHERIAE	22.00	38.00	30.00
HANNAEA ARCUS	11.00	11.00	11.00

2.4.2.925

G-7-2 (Continued)

SITE = 33

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SYNEDRA ULNA	5.00		2.50
COCCONEIS PEDICULUS	5.00		2.50
ACHNANTHES LANCEOLATA	5.00	5.00	5.00
ACHNANTHES MINUTISSIMA	27.00	43.00	35.00
NAVICULA CRYPTOCEPHALA	162.00	157.00	159.50
NAVICULA PELLICULOSA	27.00	54.00	40.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA TRIPUNCTATA	65.00	54.00	59.50
NAVICULA VIRIDULA	874.00	443.00	658.50
NAVICULA SP 2	5.00		2.50
CALONEIS AMPHISBAENA		5.00	2.50
PINNULARIA GLOBICEPS	5.00		2.50
AMPHORA OVALIS VAR. PEDICULUS	22.00	11.00	16.50
CYMBELLA AFFINIS	27.00	22.00	24.50
CYMBELLA SINUATA	5.00	16.00	10.50
CYMBELLA VENTRICOSA	86.00	70.00	78.00
GOMPHONEMA INTRICATUM	27.00		13.50
GOMPHONEMA OLIVACEUM	259.00	221.00	240.00
GOMPHONEMA VENTRICOSUM		5.00	2.50
EPITHEMIA SOREX	22.00	16.00	19.00

2.4.2.926

SITE = 33

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	22.00	11.00	16.50
NITZSCHIA DENTICULA		5.00	2.50
NITZSCHIA DISSIPATA	65.00	81.00	73.00
NITZSCHIA FRUSTULUM	5.00	11.00	8.00
NITZSCHIA HOLSATICA	22.00	32.00	27.00
NITZSCHIA LINEARIS	11.00		5.50
NITZSCHIA PALEA	16.00		8.00
CYMATOPLEURA SOLEA	.04	.06	.05
SURIRELLA ANGUSTATA	5.00		2.50
SURIRELLA OVATA	32.00	22.00	27.00
GROUP MEAN			1769.05
EUGLENOPHYTA			
EUGLENA SPP	11.00		5.50
GROUP MEAN			5.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	22.00		11.00
GROUP MEAN			11.00

2.4.2.927

G-7-2 (Continued)

SITE = 33

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	103.00	22.00	62.50
GROUP MEAN			62.50

2.4.2.928

SITE = 34

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS		22.00	11.00
CALOTHRIX SPP		11.00	5.50
GROUP MEAN			16.50
CHLOROPHYTA			
ULOTHRIX SPP		.12	.06
STIGEOCLONIUM SPP	.14	.40	.27
CLADOPHORA SPP	.40		.20
CHLOROPHYTA I	32.00	162.00	97.00
GROUP MEAN			97.53
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		11.00	5.50
THALASSIOSIRA FLUVIATILIS	16.00		8.00
CYCLOTELLA MENEGHINIANA		11.00	5.50
STEPHANODISCUS ASTRAEA		76.00	38.00
STEPHANODISCUS TENUIS	5.00		2.50
DIATOMA VULGARE	16.00	22.00	19.00
FRAGILARIA CONSTRUENS	81.00		40.50
FRAGILARIA LEPTOSTAURON	5.00		2.50

G-7-2 (Continued)

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA PINNATA	16.00	22.00	19.00
FRAGILARIA VAUCHERIAE	38.00	32.00	35.00
HANNAEA ARCUS	5.00		2.50
COCCONEIS PEDICULUS	5.00		2.50
ACHNANTHES MINUTISSIMA		32.00	16.00
RHOICOSPHENIA CURVATA		11.00	5.50
NAVICULA CRYPTOCEPHALA	49.00	205.00	127.00
NAVICULA PELLICULOSA	38.00	65.00	51.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00	32.00	18.50
NAVICULA TRIPUNCTATA	43.00	140.00	91.50
NAVICULA VIRIDULA	292.00	832.00	562.00
AMPHORA OVALIS VAR. PEDICULJS		108.00	54.00
CYMBELLA AFFINIS	5.00	65.00	35.00
CYMBELLA VENTRICOSA	49.00	86.00	67.50
DIDYMOSPHENIA GEMINATA		.02	.01
GOMPHONEMA OLIVACEUM	108.00	292.00	200.00
GOMPHONEMA VENTRICOSUM	11.00	11.00	11.00
EPITHEMIA SOREX	16.00	22.00	19.00
HANTZSCHIA AMPHIOXYS		11.00	5.50
NITZSCHIA ACICULARIS		11.00	5.50

2.4.2.930

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	5.00	32.00	18.50
NITZSCHIA DISSIPATA	65.00	108.00	86.50
NITZSCHIA FRUSTULUM		32.00	16.00
NITZSCHIA HOLSATICA	5.00	43.00	24.00
NITZSCHIA LINEARIS		11.00	5.50
NITZSCHIA PALEA	11.00		5.50
CYMATOPLEURA SOLEA	.02		.01
SURIRELLA OVATA	32.00	22.00	27.00
GROUP MEAN			1633.02
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	54.00	67.50
GROUP MEAN			67.50

G-7-2 (Continued)

SITE = 35

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP		27.00	13.50
GROUP MEAN			13.50
CHLOROPHYTA			
ULOTHRIX SPP	.16		.08
CHLOROPHYTA I	38.00	65.00	51.50
GROUP MEAN			51.58
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	54.00		27.00
STEPHANODISCUS ASTRAEA		75.00	37.50
STEPHANODISCUS TENUIS	5.00		2.50
DIATOMA VULGARE	27.00	81.00	54.00
MERIDION CIRCULARE	5.00		2.50
FRAGILARIA CONSTRUENS	124.00	43.00	83.50
FRAGILARIA LEPTOSTAURON	49.00	75.00	62.00
FRAGILARIA PINNATA		27.00	13.50
FRAGILARIA VAUCHERIAE	54.00	32.00	43.00
HANNAEA ARCUS	11.00		5.50
COCCONEIS PEDICULUS	38.00	43.00	40.50

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES LANCEOLATA		11.00	5.50
ACHNANTHES MINUTISSIMA	59.00	49.00	54.00
RHOICOSPHENIA CURVATA		5.00	2.50
GYROSIGMA ACUMINATUM	11.00		5.50
STAURONEIS PHOENICENTERON	.02		.01
NAVICULA CRYPTOCEPHALA	54.00	92.00	73.00
NAVICULA PELLICULOSA	59.00	27.00	43.00
NAVICULA SALINARUM		5.00	2.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00	5.00	5.00
NAVICULA TRIPUNCTATA	43.00	92.00	67.50
NAVICULA VIRIDULA	394.00	794.00	594.00
CALONEIS AMPHISBAENA	.04		.02
AMPHORA OVALIS VAR. PEDICULUS	11.00	27.00	19.00
CYMBELLA AFFINIS	27.00	16.00	21.50
CYMBELLA MEXICANA	.06		.03
CYMBELLA SINUATA	11.00		5.50
CYMBELLA VENTRICOSA	108.00	108.00	108.00
DIDYMOSPHENIA GEMINATA	.12		.06
GOMPHONEMA INTRICATUM	5.00		2.50
GOMPHONEMA OLIVACEUM	246.00	302.00	274.00

2.4.2.933

G-7-2 (Continued)

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
EPITHEMIA SOREX	11.00	86.00	48.50
CYLINDROTHECA GRACILIS		5.00	2.50
NITZSCHIA ACICULARIS	5.00		2.50
NITZSCHIA CAPITELLATA		5.00	2.50
NITZSCHIA DISSIPATA	59.00	124.00	91.50
NITZSCHIA FRUSTULUM	32.00	38.00	35.00
NITZSCHIA GRACILIS	5.00		2.50
NITZSCHIA HOLSATICA	5.00	43.00	24.00
NITZSCHIA PALEA	16.00		8.00
SURIRELLA OVATA	11.00	43.00	27.00
GROUP MEAN			1898.62
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.00		2.50
GROUP MEAN			2.50

G-7-2 (Continued)

SITE = 35

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	140.00	32.00	86.00
GROUP MEAN			86.00

APPENDIX G-7-3

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-7-3

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.

CYANOPHYTA

- CHROOCOCCUS DISPERSUS
- MERISMOPEDIA TENUISSIMA
- LYNGBYA SPP
- OSCILLATORIA TENUIS
- OSCILLATORIA SPP
- SCHIZOTHRIX CALCICOLA
- ANABAENA SPP
- NODULARIA SPUMIGENA
- CALOTHRIX SPP

CHLOROPHYTA

- CHLAMYDOMONAS GLOBOSA
- CARTERIA DISSECTA
- STIGEOCLONIUM SPP
- CLADOPHORA SPP
- PEDIASTRUM SIMPLEX
- OOCYSTIS PUSILLA
- ANKISTRODESMUS CONVOLUTUS
- ANKISTRODESMUS FALCATUS
- QUADRIGULA LACUSTRIS
- SCENEDESMUS BIJUGA
- SCENEDESMUS QUADRICAUDA

2.4.2.937

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

CHLOROPHYTA

MOUGEOTIA SPP
SPIROGYRA SPP
CLOSTERIUM LEIBLEINII
COSMARIUM SPP
STAURASTRUM SPP
CHLOROPHYTA I
CHLOROPHYTA II

CHRYSOPHYTA

BICOECA LACUSTRIS
CHRYSIDIASTRUM OCELLATUM
MICROSIPHONA POTAMOS
THALASSIOSIRA FLUVIATILIS
CYCLOTELLA MENEGHINIANA
STEPHANODISCUS ASTRAEA
STEPHANODISCUS TENUIS
STEPHANODISCUS SPP
DIATOMA HIEMALE
DIATOMA TENUE VAR. ELONGATUM
DIATOMA VULGARE
MERIDION CIRCULARE
FRAGILARIA CAPUCINA
FRAGILARIA CONSTRUENS

2.4.2.938

CHRYSOPHYTA

FRAGILARIA CROTONENSIS
FRAGILARIA LEPTOSTAURON
FRAGILARIA PINNATA
FRAGILARIA VAUCHERIAE
SYNEDRA AMPHICEPHALA
SYNEDRA PULCHELLA
SYNEDRA ULNA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
NAVICULA ARVENSIS
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA GREGARIA
NAVICULA LANCEOLATA
NAVICULA MINIMA
NAVICULA MUTICA

CHRYSOPHYTA

NAVICULA PELLICULOSA
NAVICULA PUPULA
NAVICULA PYGMAEA
NAVICULA RADIOSA
NAVICULA SALINARUM
NAVICULA SALINARUM VAR. INTERMEDIA
NAVICULA TRIPUNCTATA
NAVICULA VIRIDULA
NAVICULA SP 2
NAVICULA SP 4
NAVICULA SP 5
CALONEIS AMPHISBAENA
CALONEIS BACILLUM
CALONEIS VENTRICOSA
PINNULARIA BREBISSONII
PINNULARIA GLOBICEPS
PINNULARIA MAJOR
PINNULARIA VIRIDIS
AMPHORA OVALIS
AMPHORA OVALIS VAR. PEDICULUS
CYMBELLA AFFINIS

CHRYSOPHYTA

CYMBELLA AMPHICEPHALA
CYMBELLA OBTUSUSCULA
CYMBELLA SINUATA
CYMBELLA VENTRICOSA
CYMBELLA SP 1
GOMPHONEMA AFFINE
GOMPHONEMA INTRICATUM
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA VENTRICOSUM
AMPHIPRORA ALATA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FRUSTULUM

CHRYSOPHYTA

NITZSCHIA HOLSATICA
NITZSCHIA HUNGARICA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA PALEA
NITZSCHIA VERMICULARIS
NITZSCHIA SPP
CYMATOPLEURA ELLIPTICA
SURIRELLA ANGUSTATA
SURIRELLA OVATA
SURIRELLA OVALIS

EUGLENOPHYTA

EUGLENA PROXIMA
EUGLENA SPP

PYRRHOPHYTA

GYMNODINIUM VARIANS
PERIDINIUM PUSILLUM
CERATIUM HIRUNDINELLA

CRYPTOPHYTA

CRYPTOMONAS EROSA

MICROFLAGELLATES

FLAGELLATE UNIDENTIFIED

APPENDIX G-7-4

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.
(Site = Station; Rep = Replicate)[1]

SITE = 1

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I		14.00	7.00
GROUP MEAN			7.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	367.00	224.00	295.50
ACHNANTHES LANCEOLATA	3.00		1.50
ACHNANTHES MINUTISSIMA	22.00	11.00	16.50
NAVICULA ARVENSIS		3.00	1.50
NAVICULA CRYPTOCEPHALA	5.00		2.50
NAVICULA PELLICULOSA		5.00	2.50
AMPHORA OVALIS VAR. PEDICULUS		3.00	1.50
GOMPHONEMA INTRICATUM	5.00		2.50
GOMPHONEMA OLIVACEUM		3.00	1.50
NITZSCHIA CAPITELLATA	5.00		2.50
SURIRELLA OVATA	3.00		1.50
GROUP MEAN			329.50
EUGLENOPHYTA			
EUGLENA SPP	3.00		1.50
GROUP MEAN			1.50

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

2.4.2.944

SITE = I

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	11.00	19.00
GROUP MEAN			19.00

SITE = 4

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SP 2	16.00	3.00	9.50
NAVICULA SP 5	11.00		5.50
AMPHORA OVALIS	11.00		5.50
GOMPHONEMA INTRICATUM	8.00		4.00
GOMPHONEMA PARVULUM	3.00		1.50
CYLINDROTHECA GRACILIS	14.00		7.00
NITZSCHIA ACICULARIS	19.00	8.00	13.50
NITZSCHIA CAPITELLATA	205.00	97.00	151.00
NITZSCHIA DENTICULA	3.00		1.50
NITZSCHIA FRUSTULUM	24.00	5.00	14.50
NITZSCHIA HOLSATICA	5.00	5.00	5.00
NITZSCHIA LINEARIS	5.00	5.00	5.00
SURIRELLA OVATA	3.00		1.50
GROUP MEAN			845.67
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	140.00	122.00	131.00
GROUP MEAN			131.00

2.4.2.946

G-7-4 (Continued)

SITE = 2

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	40.00		20.00
GROUP MEAN			20.00
CHLOROPHYTA			
CHLOROPHYTA I	19.00	16.00	17.50
GROUP MEAN			17.50
CHRYSOPHYTA			
SYNEDRA AMPHICEPHALA		5.00	2.50
COCCONEIS PEDICULUS		5.00	2.50
ACHNANTHES LANCEOLATA	27.00	16.00	21.50
ACHNANTHES MINUTISSIMA	186.00	132.00	159.00
NAVICULA CRYPTOCEPHALA	5.00	8.00	6.50
NAVICULA PELLICULOSA	16.00		8.00
NAVICULA SALINARUM		3.00	1.50
NAVICULA VIRIDULA	3.00	5.00	4.00
NAVICULA SP 2	3.00	14.00	8.50
GOMPHONEMA INTRICATUM	3.00	5.00	4.00
GOMPHONEMA VENTRICOSUM	3.00		1.50
NITZSCHIA CAPITELLATA	5.00		2.50

2.4.2.947

SITE = 2

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA FRUSTULUM	5.00	19.00	12.00
NITZSCHIA HOLSATICA		3.00	1.50
NITZSCHIA PALEA	3.00		1.50
GROUP MEAN			237.00
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.00	2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	68.00	47.50
GROUP MEAN			47.50

G-7-4 (Continued)

SITE = 3

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	119.00	22.00	70.50
ANABAENA SPP	5.00		2.50
GROUP MEAN			73.00
CHLOROPHYTA			
CHLOROPHYTA I	35.00	54.00	44.50
GROUP MEAN			44.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	38.00	46.00	42.00
ACHNANTHES LANCEOLATA	32.00	14.00	23.00
ACHNANTHES MINUTISSIMA	154.00	127.00	140.50
NAVICULA ARVENSIS	14.00	14.00	14.00
NAVICULA CRYPTOCEPHALA	116.00	38.00	77.00
NAVICULA MINIMA	5.00	3.00	4.00
NAVICULA PELLICULOSA	526.00	284.00	405.00
NAVICULA PYGMAEA	5.00		2.50
NAVICULA SP 2	5.00	19.00	12.00
CALONEIS AMPHISBAENA		.04	.02
CALONEIS VENTRICOSA		3.00	1.50

2.4.2.949

SITE = 3

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHORA OVALIS	3.00	3.00	3.00
CYMBELLA AMPHICEPHALA	19.00	3.00	11.00
GOMPHONEMA INTRICATUM	5.00	16.00	10.50
GOMPHONEMA OLIVACEUM	5.00		2.50
GOMPHONEMA PARVULUM	3.00		1.50
CYLINDROTHECA GRACILIS		3.00	1.50
NITZSCHIA CAPITELLATA	173.00	127.00	150.00
NITZSCHIA FRUSTULUM	124.00	43.00	83.50
NITZSCHIA LINEARIS	11.00	3.00	7.00
NITZSCHIA PALEA	27.00		13.50
SURIRELLA OVATA	8.00		4.00
GROUP MEAN			1009.52
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	111.00	100.00	105.50
GROUP MEAN			105.50

SITE = 4

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	92.00	22.00	57.00
OSCILLATORIA TENUIS	3.00	3.00	3.00
GROUP MEAN			60.00
CHLOROPHYTA			
STAURASTRUM SPP		.04	.02
CHLOROPHYTA I	27.00		13.50
CHLOROPHYTA II		81.00	40.50
GROUP MEAN			54.02
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	143.00	149.00	146.00
ACHNANTHES LANCEOLATA	73.00	46.00	59.50
ACHNANTHES MINUTISSIMA	367.00	167.00	267.00
GYROSIGMA ACUMINATUM	.30	.04	.17
NAVICULA ARVENSIS	5.00	3.00	4.00
NAVICULA CRYPTOCEPHALA		95.00	47.50
NAVICULA LANCEOLATA		3.00	1.50
NAVICULA MINIMA		3.00	1.50
NAVICULA PELLICULOSA	138.00	49.00	93.50

2.4.2.951

SITE = 5

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		22.00	11.00
GROUP MEAN			11.00
CHLOROPHYTA			
CARTERIA DISSECTA	81.00	54.00	67.50
CLOSTERIUM LEIBLEINII	3.00		1.50
GROUP MEAN			69.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	24.00	8.00	16.00
FRAGILARIA CROTONENSIS	5.00		2.50
SYNEDRA AMPHICEPHALA	16.00	5.00	10.50
SYNEDRA ULNA	11.00		5.50
CUCCONEIS PEDICULUS	24.00	16.00	20.00
COCCONEIS PLACENTULA	11.00		5.50
ACHNANTHES LANCEOLATA	11.00	5.00	8.00
ACHNANTHES MINUTISSIMA	454.00	211.00	332.50
GYROSIGMA ACUMINATUM	8.00		4.00
PLEUROSIGMA DELICATULUM	16.00	3.00	9.50
NAVICULA CRYPTOCEPHALA	76.00	30.00	53.00

2.4.2.952

G-7-4 (Continued)

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA LANCEOLATA	3.00		1.50
NAVICULA MUTICA	3.00		1.50
NAVICULA PELLICULOSA	5.00	3.00	4.00
NAVICULA PYGMAEA	5.00		2.50
NAVICULA RADIOSA	32.00	11.00	21.50
CALONEIS AMPHISBAENA	3.00		1.50
PINNULARIA VIRIDIS	3.00		1.50
AMPHORA OVALIS	5.00		2.50
CYMBELLA AFFINIS	14.00	11.00	12.50
CYMBELLA AMPHICEPHALA		3.00	1.50
CYMBELLA VENTRICOSA	35.00	8.00	21.50
GOMPHONEMA OLIVACEUM	8.00		4.00
GOMPHONEMA PARVULUM	3.00		1.50
CYLINDROTHECA GRACILIS	8.00		4.00
NITZSCHIA ACICULARIS	16.00	19.00	17.50
NITZSCHIA CAPITELLATA	16.00	8.00	12.00
NITZSCHIA FRUSTULUM	16.00	8.00	12.00
NITZSCHIA HOLSATICA	49.00	5.00	27.00
NITZSCHIA LINEARIS	5.00		2.50
SURIRELLA OVATA	24.00	8.00	16.00
GROUP MEAN			635.50

2.4.2.953

SITE = 5

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA		3.00	1.50
EUGLENA SPP	14.00		7.00
GROUP MEAN			8.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	35.00	46.00	40.50
GROUP MEAN			40.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	86.00	68.00	77.00
GROUP MEAN			77.00

SITE = 6

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	5.00	8.00	6.50
ANABAENA SPP	3.00		1.50
GROUP MEAN			8.00
CHLOROPHYTA			
CHLOROPHYTA I	40.00	24.00	32.00
GROUP MEAN			32.00
CHRYSOPHYTA			
DIATOMA HIEMALE		3.00	1.50
MERIDION CIRCULARE	5.00		2.50
FRAGILARIA LEPTOSTAURON	3.00		1.50
FRAGILARIA VAUCHERIAE	5.00	22.00	13.50
SYNEDRA AMPHICEPHALA	22.00	5.00	13.50
ACHNANTHES LANCEOLATA	11.00	8.00	9.50
ACHNANTHES MINUTISSIMA	848.00	888.00	868.00
RHOICOSPHENIA CURVATA	3.00		1.50
GYROSIGMA ACUMINATUM	3.00		1.50
NAVICULA CRYPTOCEPHALA	65.00	43.00	54.00
NAVICULA PELLICULOSA	35.00	16.00	25.50

SITE = 6

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA VIRIDULA		5.00	2.50
NAVICULA SP 2	3.00	8.00	5.50
CALONEIS BACILLUM	3.00		1.50
CALONEIS VENTRICOSA		3.00	1.50
PINNULARIA BREBISSONII	8.00		4.00
PINNULARIA MAJOR		3.00	1.50
PINNULARIA VIRIDIS	3.00		1.50
AMPHORA OVALIS	5.00		2.50
CYMBELLA AFFINIS	8.00	5.00	6.50
CYMBELLA OBTUSUSCULA		5.00	2.50
CYMBELLA VENTRICOSA	19.00	3.00	11.00
GOMPHONEMA INTRICATUM	8.00	32.00	20.00
EPITHEMIA SOREX	3.00	3.00	3.00
CYLINDROTHECA GRACILIS	8.00		4.00
NANTZSCHIA AMPHIOXYS	5.00		2.50
NITZSCHIA APICULATA	3.00		1.50
NITZSCHIA CAPITELLATA	27.00	41.00	34.00
NITZSCHIA DENTICULA	5.00	3.00	4.00
NITZSCHIA DISSIPATA		5.00	2.50
NITZSCHIA FRUSTULUM	40.00	27.00	33.50

2.4.2.956

SITE = 6

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LINEARIS	35.00	16.00	25.50
NITZSCHIA PALEA	3.00		1.50
SURIRELLA ANGUSTATA	3.00		1.50
SURIRELLA OVATA	5.00	3.00	4.00
GROUP MEAN			1170.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	65.00		32.50
GROUP MEAN			32.50

2.4.2.957

SITE = 7

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.00	22.00	32.50
LYNGBYA SPP		16.00	8.00
ANABAENA SPP		5.00	2.50
GROUP MEAN			43.00
CHLOROPHYTA			
CHLOROPHYTA I	54.00	97.00	75.50
GROUP MEAN			75.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		54.00	27.00
FRAGILARIA CAPUCINA	8.40	16.00	12.20
ACHNANTHES LANCEOLATA	5.00	16.00	10.50
ACHNANTHES MINUTISSIMA	2959.00	2662.00	2810.50
GYROSIGMA ACUMINATUM	16.00	1.10	8.55
NAVICULA ARVENSIS	5.00	5.00	5.00
NAVICULA CRYPTOCEPHALA	97.00	108.00	102.50
NAVICULA PELLICULOSA	135.00	108.00	121.50
NAVICULA VIRIDULA	11.00		5.50
NAVICULA SP 2	11.00	16.00	13.50

2.4.2.958

SITE = 7

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
PINNULARIA BREBISSONII	.04		.02
PINNULARIA VIRIDIS		.04	.02
AMPHORA OVALIS	11.00		5.50
GOMPHONEMA INTRICATUM	16.00	22.00	19.00
GOMPHONEMA OLIVACEUM	16.00		8.00
GOMPHONEMA PARVULUM	5.00	27.00	16.00
CYLINDROTHECA GRACILIS	16.00	54.00	35.00
NITZSCHIA ACICULARIS	49.00	81.00	65.00
NITZSCHIA APICULATA		5.00	2.50
NITZSCHIA CAPITELLATA	32.00	32.00	32.00
NITZSCHIA DENTICULA	11.00	27.00	19.00
NITZSCHIA FRUSTULUM	76.00	32.00	54.00
NITZSCHIA LINEARIS	16.00	22.00	19.00
NITZSCHIA PALEA	5.00	11.00	8.00
SURIRELLA OVATA		5.00	2.50
GROUP MEAN			3402.29
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	108.00	173.00	140.50
GROUP MEAN			140.50

2.4.2.959

SITE = 8

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		43.00	21.50
GROUP MEAN			21.50
CHLOROPHYTA			
CHLOROPHYTA I	38.00	81.00	59.50
GROUP MEAN			59.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	22.00	54.00	38.00
DIATOMA HIEMALE	5.00		2.50
MERIDION CIRCULARE	5.00		2.50
SYNEDRA AMPHICEPHALA	5.00		2.50
ACHNANTHES LANCEOLATA	11.00		5.50
ACHNANTHES MINUTISSIMA	416.00	578.00	497.00
GYROSIGMA ACUMINATUM	.24		.12
NAVICULA ARVENSIS		5.00	2.50
NAVICULA CRYPTOCEPHALA	97.00	49.00	73.00
NAVICULA PELLICULOSA	81.00	70.00	75.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA SP 2	11.00	5.00	8.00

SITE = 8

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS BACILLUM	22.00	5.00	13.50
PINNULARIA BREBISSONII	.24	.56	.40
PINNULARIA MAJOR	.04		.02
AMPHORA OVALIS	11.00		5.50
CYMBELLA AFFINIS		5.00	2.50
CYMBELLA VENTRICOSA		11.00	5.50
GOMPHONEMA INTRICATUM	5.00	38.00	21.50
NITZSCHIA APICULATA	5.00		2.50
NITZSCHIA CAPITELLATA	16.00	32.00	24.00
NITZSCHIA FRUSTULUM	27.00	59.00	43.00
NITZSCHIA LINEARIS	22.00	11.00	16.50
SURIRELLA OVATA		11.00	5.50
GROUP MEAN			850.04
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	65.00	70.00	67.50
GROUP MEAN			67.50

SITE = 9

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
MERISMOPEDIA TENUISSIMA	346.00		173.00
ANABAENA SPP	11.00		5.50
GROUP MEAN			178.50
CHLOROPHYTA			
STIGEOCLONIUM SPP		16.00	8.00
CHLOROPHYTA I	140.00	92.00	116.00
GROUP MEAN			124.00
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	1631.00	578.00	1104.50
MERIDION CIRCULARE		5.00	2.50
ACHNANTHES LANCEOLATA	43.00	38.00	40.50
ACHNANTHES MINUTISSIMA	130.00	292.00	211.00
GYROSIGMA ACUMINATUM		.12	.06
NAVICULA CRYPTOCEPHALA	22.00	16.00	19.00
NAVICULA PELLICULOSA	151.00	76.00	113.50
CALONEIS BACILLUM	11.00		5.50
PINNULARIA VIRIDIS		.04	.02
GOMPHONEMA INTRICATUM	22.00		11.00

2.4.2.962

SITE = 9

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYLINDROTHECA GRACILIS		5.00	2.50
NITZSCHIA CAPITELLATA	22.00	16.00	19.00
NITZSCHIA DENTICULA		5.00	2.50
NITZSCHIA FRUSTULUM		16.00	8.00
NITZSCHIA LINEARIS	43.00	16.00	29.50
GROUP MEAN			1569.08
EUGLENOPHYTA			
EUGLENA PROXIMA	11.00		5.50
GROUP MEAN			5.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	302.00	173.00	237.50
GROUP MEAN			237.50

2.4.2.963

SITE = 13

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		22.00	11.00
LYNGBYA SPP	16.00		8.00
CALOTHRIX SPP		76.00	38.00
GROUP MEAN			57.00
CHLOROPHYTA			
STIGEOCLONIUM SPP		16.00	8.00
COSMARIUM SPP	5.00		2.50
CHLOROPHYTA I	108.00	162.00	135.00
GROUP MEAN			145.50
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM		27.00	13.50
CYCLOTELLA MENEGHINIANA	5.00		2.50
MERIDION CIRCULARE	16.00	22.00	19.00
FRAGILARIA VAUCHERIAE		22.00	11.00
SYNEDRA AMPHICEPHALA	38.00		19.00
ACHNANTHES LANCEOLATA	135.00	103.00	119.00
ACHNANTHES MINUTISSIMA	1150.00	1550.00	1350.00
RHOICOSPHENIA CURVATA	11.00	5.00	8.00

2.4.2.964

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GYROSIGMA ACUMINATUM	5.00		2.50
NAVICULA CRYPTOCEPHALA	302.00	259.00	280.50
NAVICULA MUTICA		5.00	2.50
NAVICULA PELLICULOSA	113.00	113.00	113.00
NAVICULA TRIPUNCTATA	5.00		2.50
NAVICULA VIRIDULA	11.00	11.00	11.00
NAVICULA SP 2	11.00	22.00	16.50
CALONEIS BACILLUM	11.00	32.00	21.50
PINNULARIA BREBISSONII	5.00		2.50
PINNULARIA VIRIDIS		.48	.24
AMPHORA OVALIS	11.00	5.00	8.00
CYMBELLA AFFINIS	5.00	16.00	10.50
CYMBELLA VENTRICOSA	16.00	22.00	19.00
GOMPHONEMA INTRICATUM	54.00	43.00	48.50
GOMPHONEMA OLIVACEUM	5.00	5.00	5.00
RHOPALODIA GIBBA	5.00		2.50
RHOPALODIA GIBBERULA	11.00		5.50
CYLINDROTHECA GRACILIS	11.00	16.00	13.50
HANTZSCHIA AMPHIOXYS	5.00	16.00	10.50
NITZSCHIA CAPITELLATA	32.00	54.00	43.00

2.4.2.965

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA DISSIPATA		5.00	2.50
NITZSCHIA FRUSTULUM	113.00	70.00	91.50
NITZSCHIA HOLSATICA		5.00	2.50
NITZSCHIA LATENS	5.00		2.50
NITZSCHIA LINEARIS	65.00	22.00	43.50
NITZSCHIA PALEA	11.00		5.50
SURIRELLA OVATA	22.00	22.00	22.00
GROUP MEAN			2330.74
EUGLENOPHYTA			
EUGLENA SPP		5.00	2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	270.00	86.00	178.00
GROUP MEAN			178.00

2.4.2.966

SITE = 14

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	86.00	65.00	75.50
ANABAENA SPP	5.00		2.50
GROUP MEAN			78.00
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	92.00	22.00	57.00
QUADRIGULA LACUSTRIS	4752.00		2376.00
SPIROGYRA SPP	59.00	10.00	34.50
CLOSTERIUM LEIBLEINII	.56	.40	.48
CHLOROPHYTA I	119.00	81.00	100.00
CHLOROPHYTA II		3564.00	1782.00
GROUP MEAN			4349.98
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	470.00	335.00	402.50
FRAGILARIA CROTONENSIS	54.00		27.00
SYNEDRA AMPHICEPHALA	32.00	16.00	24.00
SYNEDRA ULNA	108.00	32.00	70.00
ACHNANTHES LANCEOLATA	27.00	5.00	16.00
ACHNANTHES MINUTISSIMA	65.00	27.00	46.00

2.4.2.967

G-7-4 (Continued)

SITE = 14

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA ARVENSIS		5.00	2.50
NAVICULA CRYPTOCEPHALA	265.00	130.00	197.50
NAVICULA CUSPIDATA	.44	1.30	.87
NAVICULA PELLICULOSA	38.00	11.00	24.50
NAVICULA SALINARUM VAR. INTERMEDIA	11.00		5.50
NAVICULA VIRIDULA	16.00		8.00
CALONEIS AMPHISBAENA	.04		.02
CALONEIS BACILLUM	5.00	10.00	7.50
PINNULARIA BREBISSONII		11.00	5.50
CYMBELLA AFFINIS	32.00	5.00	18.50
CYMBELLA VENTRICOSA	27.00		13.50
GOMPHONEMA VENTRICOSUM	5.00		2.50
NITZSCHIA CAPITELLATA	329.00	167.00	248.00
NITZSCHIA DENTICULA	49.00	43.00	46.00
NITZSCHIA FRUSTULUM	65.00	11.00	38.00
NITZSCHIA HOLSATICA	5.00		2.50
NITZSCHIA LINEARIS	11.00		5.50
NITZSCHIA PALEA	5.00		2.50
GROUP MEAN			1214.39

G-7-4 (Continued)

SITE = 14

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA		59.00	29.50
EUGLENA SPP	146.00		73.00
GROUP MEAN			102.50
PYRRHOPHYTA			
GYMNODINIUM VARIANS	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	54.00	92.00	73.00
GROUP MEAN			73.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	389.00	756.00	572.50
GROUP MEAN			572.50

SITE = 15

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		454.00	227.00
ANABAENA SPP	5.00	16.00	10.50
GROUP MEAN			237.50
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA		5.00	2.50
STIGEOCLONIUM SPP	3.00	5.00	4.00
SPIROGYRA SPP	25.40		12.70
CHLOROPHYTA I	378.00	437.00	407.50
CHLOROPHYTA II	1534.00	1620.00	1577.00
GROUP MEAN			2003.70
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	43.00	216.00	129.50
STEPHANODISCUS ASTRAEA		5.00	2.50
FRAGILARIA CROTONENSIS	11.00	16.00	13.50
ACHNANTHES LANCEOLATA	70.00	162.00	116.00
ACHNANTHES MINUTISSIMA	81.00	92.00	86.50
NAVICULA ARVENSIS	5.00	5.00	5.00
NAVICULA CRYPTOCEPHALA	65.00	259.00	162.00

2.4.2.970

G-7-4 (Continued)

SITE = 15

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	146.00	216.00	181.00
NAVICULA SALINARUM VAR. INTERMEDIA		5.00	2.50
NAVICULA SP 2		11.00	5.50
AMPHORA OVALIS	5.00		2.50
CYMBELLA AFFINIS		5.00	2.50
CYMBELLA AMPHICEPHALA	5.00	16.00	10.50
GOMPHONEMA INTRICATUM		11.00	5.50
NITZSCHIA CAPITELLATA	22.00	157.00	89.50
NITZSCHIA DENTICULA	11.00		5.50
NITZSCHIA FRUSTULUM	11.00	22.00	16.50
NITZSCHIA HOLSATICA	11.00		5.50
GROUP MEAN			842.00
EUGLENOPHYTA			
EUGLENA PROXIMA	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	16.00	5.00	10.50
GROUP MEAN			10.50

SITE = 15

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	3305.00	2419.00	2862.00
GROUP MEAN			2862.00

G-7-4 (Continued)

SITE = 17

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	11.00	11.00	11.00
GROUP MEAN			11.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	6.00	6.00	6.00
CLADOPHORA SPP	81.00	10.00	45.50
ANKISTRODESMUS FALCATUS		5.00	2.50
SPIROGYRA SPP	2.70	2.00	2.35
CHLOROPHYTA I	124.00	232.00	178.00
GROUP MEAN			234.35
CHRYSOPHYTA			
STEPHANODISCUS TENUIS		5.00	2.50
FRAGILARIA CROTONENSIS		22.00	11.00
SYNEDRA AMPHICEPHALA	27.00	11.00	19.00
SYNEDRA ULNA		5.00	2.50
ACHNANTHES LANCEOLATA	135.00	167.00	151.00
ACHNANTHES MINUTISSIMA		97.00	48.50
NAVICULA CRYPTOCEPHALA	32.00	22.00	27.00
NAVICULA PELLICULOSA	1604.00	934.00	1269.00

2.4.2.973

SITE = 17

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SP 2	5.00		2.50
AMPHORA OVALIS VAR. PEDICULJS	11.00	22.00	16.50
GOMPHONEMA AFFINE	11.00		5.50
GOMPHONEMA INTRICATUM	11.00	76.00	43.50
NITZSCHIA ACICULARIS		5.00	2.50
NITZSCHIA CAPITELLATA	5.00		2.50
NITZSCHIA FRUSTULUM	5.00	11.00	8.00
NITZSCHIA LATENS	11.00	5.00	8.00
GROUP MEAN			1619.50
EUGLENOPHYTA			
EUGLENA SPP		5.00	2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	103.00	97.00	100.00
GROUP MEAN			100.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	767.00	1134.00	950.50
GROUP MEAN			950.50

2.4.2.974

SITE = 18

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	5.00		2.50
GROUP MEAN			2.50
CHLOROPHYTA			
STIGEOCLONIUM SPP		32.00	16.00
SPIROGYRA SPP	3.40	22.00	12.70
CHLOROPHYTA I	432.00	918.00	675.00
GROUP MEAN			703.70
CHRYSOPHYTA			
MICROSIPHONA POTAMOS		16.00	8.00
CYCLOTELLA MENEGHINIANA	5.00	5.00	5.00
SYNEDRA AMPHICEPHALA	5.00	65.00	35.00
ACHNANTHES LANCEOLATA	86.00	297.00	191.50
ACHNANTHES MINUTISSIMA	22.00	92.00	57.00
NAVICULA ARVENSIS	5.00	22.00	13.50
NAVICULA CRYPTOCEPHALA	38.00	130.00	84.00
NAVICULA CUSPIDATA		.04	.02
NAVICULA PELLICULOSA	880.00	2295.00	1587.50
NAVICULA SP 2		16.00	8.00

2.4.2.975

SITE = 18

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHORA OVALIS VAR. PEDICULJS	5.00	27.00	16.00
GOMPHONEMA AFFINE	5.00	5.00	5.00
GOMPHONEMA INTRICATUM	22.00	119.00	70.50
NITZSCHIA CAPITELLATA	22.00	130.00	76.00
NITZSCHIA FRUSTULUM	5.00	43.00	24.00
NITZSCHIA LATENS		5.00	2.50
NITZSCHIA PALEA	5.00	16.00	10.50
GROUP MEAN			2194.02
CRYPTOPHYTA			
CRYPTOMONAS EROSA	70.00	43.00	56.50
GROUP MEAN			56.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	1350.00	1847.00	1598.50
GROUP MEAN			1598.50

2.4.2.976

SITE = 19

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	11.00	11.00	11.00
GROUP MEAN			11.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.34		.17
MOUGEOTIA SPP	.30		.15
CHLOROPHYTA I	202.00	135.00	168.50
GROUP MEAN			168.82
CHRYSOPHYTA			
BICOECA LACUSTRIS	583.00	524.00	553.50
CYCLOTELLA MENEGHINIANA	140.00	146.00	143.00
STEPHANODISCUS ASTRAEA		5.00	2.50
SYNEDRA AMPHICEPHALA	46.00	32.00	39.00
ACHNANTHES LANCEOLATA		11.00	5.50
PLEUROSIGMA DELICATULUM	5.00	5.00	5.00
NAVICULA ARVENSIS		11.00	5.50
NAVICULA CRYPTOCEPHALA	35.00	38.00	36.50
NAVICULA GREGARIA	3.00		1.50
NAVICULA PELLICULOSA	19.00	86.00	52.50

SITE = 19

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM	3.00		1.50
NAVICULA SP 2	6.00	5.00	5.50
NAVICULA SP 4	3.00		1.50
CALONEIS BACILLUM	3.00		1.50
CALONEIS VENTRICOSA	5.00		2.50
GOMPHONEMA AFFINE		5.00	2.50
AMPHIPRORA ALATA	3.00		1.50
CYLINDROTHECA GRACILIS		5.00	2.50
NITZSCHIA ACICULARIS	3.00	5.00	4.00
NITZSCHIA APICULATA		5.00	2.50
NITZSCHIA CAPITELLATA	11.00	5.00	8.00
NITZSCHIA FRUSTULUM	40.00	43.00	41.50
NITZSCHIA HOLSATICA	27.00	22.00	24.50
NITZSCHIA LATENS	97.00	97.00	97.00
NITZSCHIA PALEA		16.00	8.00
SURIRELLA OVATA	3.00		1.50
GROUP MEAN			1050.50
EUGLENOPHYTA			
EUGLENA SPP	3.00		1.50
GROUP MEAN			1.50

2.4.2.978

SITE = 19

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	400.00	259.00	329.50
GROUP MEAN			329.50

G-7-4 (Continued)

SITE = 20

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	5.00		2.50
GROUP MEAN			2.50
CHLOROPHYTA			
MOUGEOTIA SPP		.88	.44
CHLOROPHYTA I	22.00	27.00	24.50
GROUP MEAN			24.94
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	729.00	1116.00	922.50
FRAGILARIA CAPUCINA	2.40		1.20
ACHNANTHES MINUTISSIMA	5.00		2.50
NAVICULA CRYPTOCEPHALA	27.00	16.00	21.50
NAVICULA PELLICULOSA	22.00	11.00	16.50
NAVICULA VIRIDULA	11.00	11.00	11.00
CALONEIS AMPHISBAENA	.08		.04
AMPHORA OVALIS VAR. PEDICULUS		22.00	11.00
GOMPHONEMA AFFINE	5.00	5.00	5.00
CYLINDROTHECA GRACILIS	5.00		2.50
NITZSCHIA ACICULARIS	5.00		2.50

2.4.2.980

SITE = 20

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA APICULATA	5.00	11.00	8.00
NITZSCHIA DENTICULA		5.00	2.50
NITZSCHIA FRUSTULUM	5.00	22.00	13.50
NITZSCHIA LATENS	54.00	59.00	56.50
SURIRELLA OVATA	22.00	5.00	13.50
GROUP MEAN			1090.24
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	189.00	135.00	162.00
GROUP MEAN			162.00

2.4.2.981

G-7-4 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	5.00		2.50
ANABAENA SPP		3.00	1.50
NODULARIA SPUMIGENA	.50		.25
GROUP MEAN			4.25
CHLOROPHYTA			
ANKISTRODESMUS CONVOLUTUS	5.00		2.50
CHLOROPHYTA I	19.00	32.00	25.50
GROUP MEAN			28.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	1947.00	1858.00	1902.50
FRAGILARIA VAUCHERIAE		3.00	1.50
SYNEDRA PULCHELLA	8.00	5.00	6.50
ACHNANTHES MINUTISSIMA	5.00	3.00	4.00
PLEUROSIGMA DELICATULUM		3.00	1.50
NAVICULA CRYPTOCEPHALA	5.00	32.00	18.50
NAVICULA PELLICULOSA	35.00	11.00	23.00
NAVICULA VIRIDULA	19.00		9.50
NAVICULA SP 2		3.00	1.50

2.4.2.982

G-7-4 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA AFFINIS	3.00		1.50
GOMPHONEMA AFFINE	8.00	5.00	6.50
CYLINDROTHECA GRACILIS		3.00	1.50
NITZSCHIA ACICULARIS	8.00	3.00	5.50
NITZSCHIA APICULATA	5.00	14.00	9.50
NITZSCHIA FRUSTULUM	3.00	11.00	7.00
NITZSCHIA HOLSATICA	40.00		20.00
NITZSCHIA LATENS	54.00	51.00	52.50
NITZSCHIA LINEARIS	8.00		4.00
SURIRELLA OVATA	8.00	19.00	13.50
SURIRELLA OVALIS	3.00	5.00	4.00
GROUP MEAN			2094.00
EUGLENOPHYTA			
EUGLENA PROXIMA	5.00		2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	121.00	81.00	101.00
GROUP MEAN			101.00

2.4.2.983

SITE = 22

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
SCHIZOTHRIX CALCICOLA	16.00		8.00
ANABAENA SPP		5.00	2.50
NODULARIA SPUMIGENA	1.00		.50
GROUP MEAN			11.00
CHLOROPHYTA			
CLADOPHORA SPP		6.00	3.00
SPIROGYRA SPP	65.00	8.00	36.50
CHLOROPHYTA I	97.00	49.00	73.00
GROUP MEAN			112.50
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	1166.00	740.00	953.00
FRAGILARIA CAPUCINA	11.00		5.50
SYNEDRA PULCHELLA	16.00		8.00
ACHNANTHES MINUTISSIMA	11.00		5.50
NAVICULA CRYPTOCEPHALA	65.00	27.00	46.00
NAVICULA PELLICULOSA	38.00		19.00
NAVICULA VIRIDULA	11.00		5.50
NAVICULA SP 2		5.00	2.50

2.4.2.984

SITE = 22

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA SINUATA	10.00		5.00
GOMPHONEMA INTRICATUM	5.00		2.50
AMPHIPRORA ALATA	5.00		2.50
NITZSCHIA ACICULARIS	32.00		16.00
NITZSCHIA APICULATA	11.00	5.00	8.00
NITZSCHIA CAPITELLATA	11.00	16.00	13.50
NITZSCHIA FRUSTULUM	92.00	49.00	70.50
NITZSCHIA HOLSATICA	97.00	16.00	56.50
NITZSCHIA HUNGARICA	5.00		2.50
NITZSCHIA LATENS	22.00	113.00	67.50
NITZSCHIA VERMICULARIS	5.00		2.50
SURIRELLA OVATA	11.00	32.00	21.50
GROUP MEAN			1313.50
EUGLENOPHYTA			
EUGLENA SPP	5.00		2.50
GROUP MEAN			2.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.00	11.00	8.00
GROUP MEAN			8.00

2.4.2.985

SITE = 22

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	146.00	221.00	183.50
GROUP MEAN			183.50

SITE = 23

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.00		21.50
LYNGBYA SPP	19.00		9.50
OSCILLATORIA TENUIS		8.00	4.00
OSCILLATORIA SPP	5.00		2.50
ANABAENA SPP	5.00		2.50
GROUP MEAN			40.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.14	.32	.23
ANKISTRODESMUS FALCATUS		3.00	1.50
SPIROGYRA SPP	.18		.09
CHLOROPHYTA 1	32.00	38.00	35.00
GROUP MEAN			36.82
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	24.00	8.00	16.00
STEPHANODISCUS ASTRAEA	8.00	22.00	15.00
DIATOMA VULGARE	16.00		8.00
FRAGILARIA CONSTRUENS	14.00		7.00
FRAGILARIA LEPTOSTAURON	27.00	11.00	19.00

2.4.2.987

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA PINNATA	8.00	16.00	12.00
FRAGILARIA VAUCHERIAE	30.00	16.00	23.00
HANNAEA ARCUS	3.00		1.50
SYNEDRA PULCHELLA		3.00	1.50
SYNEDRA ULNA	16.00	5.00	10.50
COCCONEIS PEDICULUS		3.00	1.50
ACHNANTHES LANCEOLATA	5.00		2.50
ACHNANTHES MINUTISSIMA	16.00	24.00	20.00
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	116.00	89.00	102.50
NAVICULA PELLICULOSA	38.00	68.00	53.00
NAVICULA PUPULA	3.00	3.00	3.00
NAVICULA SALINARUM VAR. INTERMEDIA	3.00	3.00	3.00
NAVICULA TRIPUNCTATA	24.00	14.00	19.00
NAVICULA VIRIDULA	70.00	68.00	69.00
PINNULARIA GLOBICEPS		3.00	1.50
AMPHORA OVALIS VAR. PEDICULUS	40.00	62.00	51.00
CYMBELLA AFFINIS	19.00	19.00	19.00
CYMBELLA SINUATA		14.00	7.00
CYMBELLA VENTRICOSA	51.00	54.00	52.50

G-7-4 (Continued)

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA INTRICATUM		43.00	21.50
GOMPHONEMA OLIVACEUM	97.00	68.00	82.50
EPITHEMIA SOREX	3.00	3.00	3.00
NITZSCHIA ACICULARIS	14.00	19.00	16.50
NITZSCHIA APICULATA		5.00	2.50
NITZSCHIA CAPITELLATA	22.00	19.00	20.50
NITZSCHIA DISSIPATA	76.00	54.00	65.00
NITZSCHIA FRUSTULUM	38.00	30.00	34.00
NITZSCHIA HOLSATICA	32.00	32.00	32.00
NITZSCHIA LATENS		5.00	2.50
NITZSCHIA PALEA	5.00	3.00	4.00
CYMATOPLEURA SOLEA	.06		.03
SURIRELLA OVATA	14.00	5.00	9.50
GROUP MEAN			814.03
CRYPTOPHYTA			
CRYPTOMONAS EROSA		3.00	1.50
GROUP MEAN			1.50

2.4.2.989

SITE = 23

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	22.00	14.00	18.00
GROUP MEAN			18.00

SITE = 25

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	8.00		4.00
OSCILLATORIA TENUIS	8.00		4.00
ANABAENA SPP	3.00		1.50
CALOTHRIX SPP		16.00	8.00
GROUP MEAN			17.50
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA		16.00	8.00
STIGEOCLONIUM SPP	1.00	11.00	6.00
CLADOPHORA SPP	.10		.05
CLOSTERIUM LEIBLEINII	.02	.04	.03
CHLOROPHYTA I	16.00	108.00	62.00
GROUP MEAN			76.08
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	24.00	11.00	17.50
STEPHANODISCUS ASTRAEA		59.00	29.50
STEPHANODISCUS TENUIS	5.00		2.50
STEPHANODISCUS SPP	27.00		13.50
DIATOMA HIEMALE	3.00		1.50

G-7-4 (Continued)

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
DIATOMA VULGARE	5.00	5.00	5.00
FRAGILARIA CONSTRUENS	11.00		5.50
FRAGILARIA CROTONENSIS	5.00		2.50
FRAGILARIA LEPTOSTAURON	38.00	49.00	43.50
FRAGILARIA PINNATA	11.00		5.50
FRAGILARIA VAUCHERIAE	11.00	16.00	13.50
SYNEDRA AMPHICEPHALA	3.00		1.50
SYNEDRA ULNA	14.00	27.00	20.50
COCCONEIS PEDICULUS		5.00	2.50
ACHNANTHES MINUTISSIMA	11.00		5.50
RHOICOSPHENIA CURVATA	3.00		1.50
NAVICULA ARVENSIS	5.00	16.00	10.50
NAVICULA CRYPTOCEPHALA	103.00	178.00	140.50
NAVICULA PELLICULOSA	65.00	178.00	121.50
NAVICULA SALINARUM VAR. INTERMEDIA	3.00	5.00	4.00
NAVICULA TRIPUNCTATA	22.00	32.00	27.00
NAVICULA VIRIDULA	113.00	162.00	137.50
CALONEIS BACILLUM	8.00		4.00
AMPHORA OVALIS		5.00	2.50
AMPHORA OVALIS VAR. PEDICULUS	51.00	146.00	98.50

2.4.2.992

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA AFFINIS	11.00	11.00	11.00
CYMBELLA SINUATA	8.00	21.00	14.50
CYMBELLA VENTRICOSA	16.00	113.00	64.50
GOMPHONEMA INTRICATUM		16.00	8.00
GOMPHONEMA OLIVACEUM	100.00	173.00	136.50
GOMPHONEMA VENTRICOSUM		22.00	11.00
EPITHEMIA SOREX	3.00	11.00	7.00
CYLINDROTHECA GRACILIS		5.00	2.50
HANTZSCHIA AMPHIOXYS	3.00		1.50
NITZSCHIA ACICULARIS	70.00	113.00	91.50
NITZSCHIA CAPITELLATA	11.00	27.00	19.00
NITZSCHIA DISSIPATA	43.00	97.00	70.00
NITZSCHIA FRUSTULUM	24.00	11.00	17.50
NITZSCHIA HOLSATICA	70.00	65.00	67.50
NITZSCHIA LINEARIS	5.00		2.50
NITZSCHIA PALEA	5.00	11.00	8.00
CYMATOPLEURA ELLIPTICA		5.00	2.50
CYMATOPLEURA SOLEA	.06	.08	.07
SURIRELLA OVATA	19.00	22.00	20.50
GROUP MEAN			1273.07

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA AFFINIS	11.00	11.00	11.00
CYMBELLA SINUATA	8.00	21.00	14.50
CYMBELLA VENTRICOSA	16.00	113.00	64.50
GOMPHONEMA INTRICATUM		16.00	8.00
GOMPHONEMA OLIVACEUM	100.00	173.00	136.50
GOMPHONEMA VENTRICOSUM		22.00	11.00
EPITHEMIA SOREX	3.00	11.00	7.00
CYLINDROTHECA GRACILIS		5.00	2.50
HANTZSCHIA AMPHIOXYS	3.00		1.50
NITZSCHIA ACICULARIS	70.00	113.00	91.50
NITZSCHIA CAPITELLATA	11.00	27.00	19.00
NITZSCHIA DISSIPATA	43.00	97.00	70.00
NITZSCHIA FRUSTULUM	24.00	11.00	17.50
NITZSCHIA HOLSATICA	70.00	65.00	67.50
NITZSCHIA LINEARIS	5.00		2.50
NITZSCHIA PALEA	5.00	11.00	8.00
CYMATOPLEURA ELLIPTICA		5.00	2.50
CYMATOPLEURA SOLEA	.06	.08	.07
SURIRELLA OVATA	19.00	22.00	20.50
GROUP MEAN			1273.07

2.4.2.993

SITE = 25

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA	11.00		5.50
EUGLENA SPP		11.00	5.50
GROUP MEAN			11.00
PYRRHOPHYTA			
CERATIUM HIRUNDINELLA	.02	.04	.03
GROUP MEAN			.03
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.00	11.00	8.00
GROUP MEAN			8.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	22.00	54.00	38.00
GROUP MEAN			38.00

SITE = 26

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	5.00		2.50
CALOTHRIX SPP	11.00		5.50
GROUP MEAN			8.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.70	.40	.55
CHLOROPHYTA I	65.00	97.00	81.00
GROUP MEAN			81.55
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS		5.00	2.50
CYCLOTELLA MENEGHINIANA	11.00	16.00	13.50
STEPHANODISCUS ASTRAEA	11.00	16.00	13.50
FRAGILARIA CONSTRUENS	11.00		5.50
FRAGILARIA LEPTOSTAURON	22.00	16.00	19.00
FRAGILARIA PINNATA		22.00	11.00
FRAGILARIA VAUCHERIAE		5.00	2.50
SYNEDRA ULNA		11.00	5.50
ACHNANTHES MINUTISSIMA	5.00	22.00	13.50
NAVICULA ARVENSIS		5.00	2.50

SITE = 26

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA CRYPTOCEPHALA	76.00	65.00	70.50
NAVICULA PELLICULOSA	81.00	119.00	100.00
NAVICULA PUPULA		5.00	2.50
NAVICULA SALINARUM VAR. INTERMEDIA		5.00	2.50
NAVICULA TRIPUNCTATA	11.00		5.50
NAVICULA VIRIDULA	92.00	86.00	89.00
CALONEIS BACILLUM	5.00		2.50
PINNULARIA VIRIDIS	.04		.02
AMPHORA OVALIS VAR. PEDICULUS	22.00	54.00	38.00
CYMBELLA AFFINIS	16.00	5.00	10.50
CYMBELLA SINUATA	5.00	22.00	13.50
CYMBELLA VENTRICOSA	5.00	38.00	21.50
GOMPHONEMA OLIVACEUM	86.00	86.00	86.00
NITZSCHIA ACICULARIS	54.00	70.00	62.00
NITZSCHIA APICULATA		5.00	2.50
NITZSCHIA CAPITELLATA	16.00	27.00	21.50
NITZSCHIA DISSIPATA	59.00	86.00	72.50
NITZSCHIA FRUSTULUM	22.00	49.00	35.50
NITZSCHIA HOLSATICA	22.00	11.00	16.50
NITZSCHIA LINEARIS		5.00	2.50

SITE = 26

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA PALEA	11.00		5.50
CYMATOPLEURA SOLEA	.04		.02
SURIRELLA OVATA	22.00	5.00	13.50
GROUP MEAN			763.04
EUGLENOPHYTA			
EUGLENA SPP		22.00	11.00
GROUP MEAN			11.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	38.00	46.00
GROUP MEAN			46.00

2.4.2.997

SITE = 27

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	5.00	5.00	5.00
CALOTHRIX SPP	14.00	8.00	11.00
GROUP MEAN			16.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.50	8.00	4.25
CLADOPHORA SPP		1.00	.50
ANKISTRODESMUS FALCATUS	3.00		1.50
SCENEDESMUS QUADRICAUDA	22.00		11.00
CHLOROPHYTA I	22.00	41.00	31.50
GROUP MEAN			48.75
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	8.00	11.00	9.50
STEPHANODISCUS ASTRAEA	16.00	5.00	10.50
DIATOMA TENUE VAR. ELONGATUM	5.00		2.50
DIATOMA VULGARE		5.00	2.50
FRAGILARIA CONSTRUENS	81.00		40.50
FRAGILARIA CROTONENSIS	16.00		8.00
FRAGILARIA LEPTOSTAURON	27.00	32.00	29.50

2.4.2.998

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA PINNATA	40.00	8.00	24.00
FRAGILARIA VAUCHERIAE	3.00	8.00	5.50
SYNEDRA AMPHICEPHALA	5.00		2.50
SYNEDRA ULNA	11.00	5.00	8.00
COCCONEIS PEDICULUS	5.00	3.00	4.00
ACHNANTHES LANCEOLATA		3.00	1.50
ACHNANTHES MINUTISSIMA	11.00	22.00	16.50
NAVICULA CRYPTOCEPHALA	121.00	41.00	81.00
NAVICULA GREGARIA	5.00		2.50
NAVICULA PELLICULOSA	84.00	59.00	71.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA TRIPUNCTATA	14.00	5.00	9.50
NAVICULA VIRIDULA	78.00	24.00	51.00
AMPHORA OVALIS VAR. PEDICULUS	59.00	27.00	43.00
CYMBELLA AFFINIS	19.00		9.50
CYMBELLA VENTRICOSA	19.00	5.00	12.00
GOMPHONEMA INTRICATUM		3.00	1.50
GOMPHONEMA OLIVACEUM	73.00	32.00	52.50
EPITHEMIA SOREX	3.00		1.50
NITZSCHIA ACICULARIS	94.00	27.00	60.50

2.4.2.999

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA APICULATA	3.00		1.50
NITZSCHIA CAPITELLATA	11.00	14.00	12.50
NITZSCHIA DISSIPATA	35.00	3.00	19.00
NITZSCHIA FRUSTULUM	24.00	3.00	13.50
NITZSCHIA HOLSATICA	62.00	5.00	33.50
NITZSCHIA LATENS		3.00	1.50
NITZSCHIA PALEA	3.00		1.50
CYMATOPLEURA SOLEA	.02		.01
SURIRELLA OVATA	19.00		9.50
GROUP MEAN			656.01
EUGLENOPHYTA			
EUGLENA SPP	3.00	14.00	8.50
GROUP MEAN			8.50
PYRRHUPHYTA			
PERIDINIUM PUSILLUM	3.00		1.50
GROUP MEAN			1.50

2.4.2.1000

G-7-4 (Continued)

SITE = 27

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	11.00	6.00	8.50
GROUP MEAN			8.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	40.00	11.00	25.50
GROUP MEAN			25.50

SITE = 28

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	22.00		11.00
OSCILLATORIA TENUIS	11.00		5.50
ANABAENA SPP		3.00	1.50
NODULARIA SPUMIGENA		3.00	1.50
CALOTHRIX SPP	11.00		5.50
GROUP MEAN			25.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	11.00		5.50
CLADOPHORA SPP		9.00	4.50
SPIROGYRA SPP	76.00		38.00
CHLOROPHYTA I	86.00	22.00	54.00
GROUP MEAN			102.00
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS		3.00	1.50
CYCLOTELLA MENEGHINIANA	140.00	208.00	174.00
STEPHANODISCUS ASTRAEA	49.00	14.00	31.50
DIATOMA VULGARE	11.00	8.00	9.50
FRAGILARIA CONSTRUENS	43.00		21.50

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA LEPTOSTAURON	38.00	16.00	27.00
FRAGILARIA PINNATA	11.00		5.50
FRAGILARIA VAUCHERIAE	43.00	8.00	25.50
SYNEDRA AMPHICEPHALA		5.00	2.50
SYNEDRA PULCHELLA		3.00	1.50
SYNEDRA ULNA		3.00	1.50
COCCONEIS PEDICULUS	11.00		5.50
ACHNANTHES MINUTISSIMA	43.00	14.00	28.50
NAVICULA ARVENSIS	11.00		5.50
NAVICULA CRYPTOCEPHALA	259.00	68.00	163.50
NAVICULA MINIMA		5.00	2.50
NAVICULA PELLICULOSA	248.00	176.00	212.00
NAVICULA TRIPUNCTATA	22.00	3.00	12.50
NAVICULA VIRIDULA	151.00	49.00	100.00
NAVICULA SP 2		5.00	2.50
AMPHORA OVALIS VAR. PEDICULUS	70.00	51.00	60.50
CYMBELLA SINUATA	5.00	14.00	9.50
CYMBELLA VENTRICOSA	49.00	22.00	35.50
GOMPHONEMA INTRICATUM		5.00	2.50
GOMPHONEMA OLIVACEUM	97.00	49.00	73.00

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA VENTRICOSUM	5.00		2.50
AMPHIPRORA ALATA	11.00	5.00	8.00
EPITHEMIA SOREX		3.00	1.50
RHOPALODIA GIBBA		3.00	1.50
CYLINDROTHECA GRACILIS	5.00	3.00	4.00
NITZSCHIA ACICULARIS	130.00	35.00	82.50
NITZSCHIA APICULATA		3.00	1.50
NITZSCHIA CAPITELLATA	59.00	35.00	47.00
NITZSCHIA DISSIPATA	32.00	35.00	33.50
NITZSCHIA FRUSTULUM	103.00	38.00	70.50
NITZSCHIA HOLSATICA	43.00	27.00	35.00
NITZSCHIA HUNGARICA		3.00	1.50
NITZSCHIA PALEA	81.00	22.00	51.50
CYMATOPLEURA SOLEA		.04	.02
SURIRELLA OVATA	27.00	27.00	27.00
GROUP MEAN			1382.52
EUGLENOPHYTA			
EUGLENA PROXIMA	11.00		5.50
EUGLENA SPP		3.00	1.50
GROUP MEAN			7.00

G-7-4 (Continued)

SITE = 28

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.00	2.50
GROUP MEAN			2.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	38.00	14.00	26.00
GROUP MEAN			26.00

SITE = 29

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP		35.00	17.50
GROUP MEAN			17.50
CHLOROPHYTA			
STIGEOCLONIUM SPP		.48	.24
PEDIASTRUM SIMPLEX	1.30		.65
DOCYSTIS PUSILLA	43.00		21.50
SPIROGYRA SPP	16.00		8.00
CHLOROPHYTA I	38.00	65.00	51.50
GROUP MEAN			81.89
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	11.00	8.00	9.50
STEPHANODISCUS ASTRAEA	38.00	8.00	23.00
FRAGILARIA CONSTRUENS	32.00	11.00	21.50
FRAGILARIA LEPTOSTAURON	5.00	16.00	10.50
FRAGILARIA VAUCHERIAE	43.00	16.00	29.50
SYNEDRA ULNA		3.00	1.50
COCCONEIS PEDICULUS		8.00	4.00
ACHNANTHES LANCEOLATA	5.00		2.50

G-7-4 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA	11.00	11.00	11.00
NAVICULA ARVENSIS		8.00	4.00
NAVICULA CRYPTOCEPHALA	157.00	76.00	116.50
NAVICULA MINIMA		3.00	1.50
NAVICULA PELLICULOSA	146.00		73.00
NAVICULA SALINARUM VAR. INTERMEDIA		5.00	2.50
NAVICULA TRIPUNCTATA	5.00	8.00	6.50
NAVICULA VIRIDULA	81.00	51.00	66.00
CALONEIS BACILLUM		3.00	1.50
AMPHORA OVALIS VAR. PEDICULJS	38.00	19.00	28.50
CYMBELLA AFFINIS	16.00		8.00
CYMBELLA SINUATA	5.00		2.50
CYMBELLA VENTRICOSA	54.00	19.00	36.50
GOMPHONEMA INTRICATUM	5.00		2.50
GOMPHONEMA OLIVACEUM	124.00	65.00	94.50
GOMPHONEMA VENTRICOSUM		3.00	1.50
NITZSCHIA ACICULARIS	103.00	32.00	67.50
NITZSCHIA APICULATA		3.00	1.50
NITZSCHIA CAPITELLATA	16.00	16.00	16.00
NITZSCHIA DISSIPATA	65.00	30.00	47.50

G-7-4 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA FRUSTULUM	43.00		21.50
NITZSCHIA HOLSATICA	65.00	27.00	46.00
NITZSCHIA PALEA	11.00	5.00	8.00
CYMATOPLEURA SOLEA	.08	.04	.06
SURIRELLA OVATA	11.00	5.00	8.00
GROUP MEAN			774.56
EUGLENOPHYTA			
EUGLENA PROXIMA		3.00	1.50
EUGLENA SPP		14.00	7.00
GROUP MEAN			8.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA		8.00	4.00
GROUP MEAN			4.00
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	43.00	19.00	31.00
GROUP MEAN			31.00

2.4.2.1008

G-7-4 (Continued)

SITE = 31

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		11.00	5.50
OSCILLATORIA TENUIS	5.00		2.50
ANABAENA SPP		3.00	1.50
CALOTHRIX SPP	11.00	14.00	12.50
GROUP MEAN			22.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.24	11.00	5.62
CLADOPHORA SPP	.76		.38
SCENEDESMUS BIJUGA	11.00		5.50
CHLOROPHYTA I	32.00	41.00	36.50
GROUP MEAN			48.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	22.00	22.00	22.00
STEPHANODISCUS ASTRAEA	14.00	14.00	14.00
DIATOMA VULGARE	11.00	11.00	11.00
FRAGILARIA LEPTOSTAURON	5.00	14.00	9.50
FRAGILARIA PINNATA	24.00		12.00
FRAGILARIA VAUCHERIAE	8.00	5.00	6.50

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SYNEDRA AMPHICEPHALA	5.00	3.00	4.00
SYNEDRA ULNA	14.00	5.00	9.50
COCCONEIS PEDICULUS	5.00	5.00	5.00
ACHNANTHES LANCEOLATA		3.00	1.50
ACHNANTHES MINUTISSIMA	14.00	8.00	11.00
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	111.00	95.00	103.00
NAVICULA PELLICULOSA	68.00	11.00	39.50
NAVICULA SALINARUM VAR. INTERMEDIA	5.00		2.50
NAVICULA TRIPUNCTATA	11.00	8.00	9.50
NAVICULA VIRIDULA	54.00	59.00	56.50
NAVICULA SP 2	3.00		1.50
AMPHORA OVALIS VAR. PEDICULUS	73.00	30.00	51.50
CYMBELLA AFFINIS	16.00	19.00	17.50
CYMBELLA SINUATA	11.00	5.00	8.00
CYMBELLA VENTRICOSA	30.00	38.00	34.00
CYMBELLA SP 1	3.00		1.50
GOMPHONEMA INTRICATUM	8.00	5.00	6.50
GOMPHONEMA OLIVACEUM	32.00	62.00	47.00
EPITHEMIA SOREX	3.00	3.00	3.00

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA ACICULARIS	19.00	19.00	19.00
NITZSCHIA CAPITELLATA	5.00	24.00	14.50
NITZSCHIA DISSIPATA	32.00	35.00	33.50
NITZSCHIA FRUSTULUM	22.00	16.00	19.00
NITZSCHIA HOLSATICA	35.00	14.00	24.50
NITZSCHIA PALEA	16.00	8.00	12.00
NITZSCHIA VERMICULARIS	.02		.01
CYMATOPLEURA SOLEA	.02	.04	.03
SURIRELLA OVATA	3.00	8.00	5.50
GROUP MEAN			618.04
EUGLENOPHYTA			
EUGLENA SPP	92.00	70.00	81.00
GROUP MEAN			81.00
PYRRHOPHYTA			
CERATIUM HIRUNDINELLA	.18	.92	.55
GROUP MEAN			.55

SITE = 31

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	8.00	11.00	9.50
GROUP MEAN			9.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	32.00	29.50
GROUP MEAN			29.50

SITE = 32

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
LYNGBYA SPP	8.00		4.00
OSCILLATORIA TENUIS	3.00		1.50
CALOTHRIX SPP	8.00		4.00
GROUP MEAN			9.50
CHLOROPHYTA			
STIGEOCLONIUM SPP		3.00	1.50
CLADOPHORA SPP	.46		.23
OOCYSTIS PUSILLA	11.00		5.50
CHLOROPHYTA I	19.00	57.00	38.00
GROUP MEAN			45.23
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	51.00	22.00	36.50
STEPHANODISCUS ASTRAEA	14.00	14.00	14.00
DIATOMA TENUE VAR. ELONGATUM	16.00		8.00
FRAGILARIA CONSTRUENS		5.00	2.50
FRAGILARIA CROTONENSIS	68.00		34.00
FRAGILARIA LEPTOSTAURON	14.00	11.00	12.50
FRAGILARIA PINNATA	3.00		1.50

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
FRAGILARIA VAUCHERIAE	30.00	3.00	16.50
SYNEDRA AMPHICEPHALA	3.00		1.50
SYNEDRA ULNA	5.00		2.50
COCCONEIS PEDICULUS	8.00		4.00
ACHNANTHES MINUTISSIMA	5.00	11.00	8.00
NAVICULA ARVENSIS	5.00		2.50
NAVICULA CRYPTOCEPHALA	86.00	95.00	90.50
NAVICULA PELLICULOSA	35.00	57.00	46.00
NAVICULA TRIPUNCTATA	16.00	22.00	19.00
NAVICULA VIRIDULA	76.00	65.00	70.50
AMPHORA OVALIS VAR. PEDICULJS	27.00	24.00	25.50
CYMBELLA AFFINIS	11.00	5.00	8.00
CYMBELLA SINUATA		5.00	2.50
CYMBELLA VENTRICOSA	19.00	27.00	23.00
GOMPHONEMA INTRICATUM		3.00	1.50
GOMPHONEMA OLIVACEUM	35.00	41.00	38.00
GOMPHONEMA VENTRICOSUM		5.00	2.50
AMPHIPRORA ALATA	.02		.01
EPITHEMIA SOREX	3.00		1.50
NITZSCHIA ACICULARIS	27.00	3.00	15.00

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	5.00	14.00	9.50
NITZSCHIA DISSIPATA	19.00	65.00	42.00
NITZSCHIA FRUSTULUM	8.00	19.00	13.50
NITZSCHIA HOLSATICA	11.00	11.00	11.00
NITZSCHIA LINEARIS		3.00	1.50
NITZSCHIA PALEA	8.00		4.00
CYMATOPLEURA SOLEA	.12		.06
SURIRELLA OVATA	3.00	5.00	4.00
GROUP MEAN			573.07
EUGLENOPHYTA			
EUGLENA SPP	116.00	73.00	94.50
GROUP MEAN			94.50
PYRRHOPHYTA			
CERATIUM HIRUNDINELLA	.16	.24	.20
GROUP MEAN			.20
CRYPTOPHYTA			
CRYPTOMONAS EROSA	8.00	5.00	6.50
GROUP MEAN			6.50

SITE = 32

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	14.00	35.00	24.50
GROUP MEAN			24.50

SITE = 35

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	65.00	21.00	43.00
SCHIZOTHRIX CALCICOLA		84.00	42.00
NODULARIA SPUMIGENA		21.00	10.50
GROUP MEAN			95.50
CHLOROPHYTA			
CLOSTERIUM LEIBLEINII	.20		.10
CHLOROPHYTA I	162.00	105.00	133.50
GROUP MEAN			133.60
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA		21.00	10.50
STEPHANODISCUS ASTRAEA	22.00	52.00	37.00
DIATOMA VULGARE		32.00	16.00
FRAGILARIA CONSTRUENS		52.00	26.00
FRAGILARIA LEPTOSTAURON	11.00	52.00	31.50
FRAGILARIA PINNATA		63.00	31.50
FRAGILARIA VAUCHERIAE	22.00	10.00	16.00
SYNEDRA AMPHICEPHALA		52.00	26.00
SYNEDRA ULNA	97.00	52.00	74.50

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
COCCONEIS PEDICULUS		21.00	10.50
ACHNANTHES MINUTISSIMA		21.00	10.50
NAVICULA ARVENSIS		10.00	5.00
NAVICULA CRYPTOCEPHALA	194.00	368.00	281.00
NAVICULA PELLICULOSA	32.00	147.00	89.50
NAVICULA PUPULA		10.00	5.00
NAVICULA SALINARUM VAR. INTERMEDIA		10.00	5.00
NAVICULA TRIPUNCTATA		42.00	21.00
NAVICULA VIRIDULA	292.00	136.00	214.00
NAVICULA SP 2		10.00	5.00
CALONEIS AMPHISBAENA		.08	.04
AMPHORA OVALIS VAR. PEDICULUS	11.00	116.00	63.50
CYMBELLA AFFINIS	32.00	21.00	26.50
CYMBELLA VENTRICOSA	65.00	94.00	79.50
GOMPHONEMA INTRICATUM	11.00		5.50
GOMPHONEMA OLIVACEUM	130.00	200.00	165.00
GOMPHONEMA VENTRICOSUM		10.00	5.00
EPITHEMIA SOREX		10.00	5.00
HANTZSCHIA AMPHIOXYS		21.00	10.50
NITZSCHIA ACICULARIS	32.00	63.00	47.50

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA CAPITELLATA	11.00	158.00	84.50
NITZSCHIA DENTICULA		10.00	5.00
NITZSCHIA DISSIPATA	43.00	73.00	58.00
NITZSCHIA FRUSTULUM	22.00	21.00	21.50
NITZSCHIA HOLSATICA	43.00	74.00	58.50
NITZSCHIA LINEARIS		10.00	5.00
NITZSCHIA SPP		10.00	5.00
CYMATOPLEURA SOLEA	.40	.16	.28
SURIRELLA OVATA	65.00	52.00	58.50
GROUP MEAN			1619.82
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00		27.00
GROUP MEAN			27.00

2.4.3 Zooplankton

Appendix G-8-1 contains a list of zooplankton taxa observed during the May - June 1976 sampling period. A total of 73 taxa was observed in the May - June 1976 collections. Quantitative data is presented in Appendix G-8-2.

Zooplankton diversities and densities which occurred during the May - June 1976 sampling were very similar to those of May - June 1975. Centropyxis spp., Notholca spp., and bdelloid rotifers dominated the zooplankton at the headwater and tract stations. Nauplii, Bryocamptus hiemalis, and ostracods were the most frequently occurring Crustacea. The Yellow Creek stations and Station 14 were characterized by high rotifer diversities, with one or two species exhibiting very high densities. Notholca acuminata dominated the zooplankton at Stations 14 and 19, and Colurella adriatica and Lepadella patella were the dominant taxa at the lower stations (20 - 22).

In the White River, the zooplankton assemblage was typified by a high diversity of organisms, with no dominant taxa. Because flow in the White River was near its peak during May - June, it is likely that this diversity resulted from greater inflow from the numerous tributaries upstream.

2.4.3. Zooplankton Data

RBOSP PROGRESS REPORT

APPENDIX G-8-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-8-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976

PROTOZOA

- CENTROPYXIS ACULEATA
- CENTROPYXIS ARCELLOIDES
- CENTROPYXIS CONSTRICTA
- CENTROPYXIS ECORNIS
- CHILODONELLA SPECIES
- CILIATES UNIDENTIFIED
- CYPHODERIA AMPULLA
- DIFFLUGIA ACUMINATA
- DIFFLUGIA GRAMEN
- DIFFLUGIA LEBES
- DIFFLUGIA OBLONGA
- EPISTYLIS SPECIES
- PARAMECIUM SPECIES
- RHABDOSTYLA SPECIES
- VORTICELLA SPECIES
- ZOOTHAMNIUM SPECIES

ROTIFER

- ASPLANCHNA PRIODONTA
- BDELLOIDEA SPECIES
- BRACHIONUS QUADRIDENTATUS
- CEPHALODELLA FORFICULA

ROTIFER

CEPHALODELLA GIBBA
CEPHALODELLA SPECIES
CEPHALODELLA VOLVOCICOLA
COLURELLA ADRIATICA
EUCHLANIS DILATATA
EUCHLANIS TRIQUETRA
KERATELLA COCHLEARIS
KERATELLA QUADRATA
LECANE LUNA
LEPADELLA OVALIS
LEPADELLA PATELLA
MACROTRACHELA SPECIES
MONOGONONTA SPECIES
MONOSTYLA BULLA
MONOSTYLA CLOSTEROCERCA
MONOSTYLA LUNARIS
NOTHOLCA ACUMINATA
NOTHOLCA SQUAMULA
POLYARTHRA EURYPTERA
POLYARTHRA VULGARIS
POMPHOLYX SULCATA

ROTIFER

SCARIDIUM LONGICAUDUM
SYNCHAETA SPECIES
TRICHOCERCA CYLINDRICA
TRICHOCERCA LONGISETA
TRICHOTRIA POCILLUM
TRICHOTRIA TETRACTIS

TARDIGRADA

TARDIGRADA UNIDENTIFIED

CLADOCERA

ALONA CIRCUMFIMBRIATA
CERIODAPHNIA QUADRANGULA
CHYDORUS SPHAERICUS
DAPHNIA SPECIES
KURZIA LATISSIMA
PLEUROXUS ADUNCUS
SCAPHOLEBERIS AURITA
SIMOCEPHALUS VETULUS

OSTRACODA

OSTRACODA SPECIES

COPEPODA (CYCLOPOIDA)

CYCLOPOID COPEPODITES
CYCLOPS BICUSPIDATUS THOMASI
CYCLOPS VERNALIS
EUCYCLOPS SPERATUS
PARACYCLOPS FIMBRIATUS POPPEI

COPEPODA (CALANOIDA)

CALANOID COPEPODITES

COPEPODA (HARPACTICOIDA)

BRYOCAMPTUS HIEMALIS

BRYOCAMPTUS SPECIES

BRYOCAMPTUS ZSCHOKKEI

ELAPHOIDELLA SUBGRACILIS

HARPACTICOID COPEPODITES

MURARIA AFFINIS

PARASTENOCARIS SPECIES

COPEPODA (GENERAL)

NAUPLII

AMPHIPODA

HYALELLA AZTECA

RBOSP PROGRESS REPORT

APPENDIX G-8-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-8-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976
(Data are expressed as organisms/m^3)[1]

SITE = 1

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	400.00	300.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	1600.00	1600.00	1600.00
GROUP MEAN			2000.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	400.00	400.00
NOTHOLCA ACUMINATA		400.00	200.00
GROUP MEAN			600.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		30.00	15.00
GROUP MEAN			15.00
OSTRACODA			
OSTRACODA SPECIES	10.00	40.00	25.00
GROUP MEAN			25.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	20.00	320.00	170.00

[1]Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

RBOSP PROGRESS REPORT

SITE = 1

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	40.00	90.00	65.00
GROUP MEAN			235.00
COPEPODA (GENERAL)			
NAUPLII	600.00	2400.00	1500.00
GROUP MEAN			1500.00

G-8-2 (Continued)

SITE = 2

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		200.00	100.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	200.00	1600.00	900.00
CENTROPYXIS ECORNIS		400.00	200.00
GROUP MEAN			1400.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	600.00	500.00
NOTHOLCA ACUMINATA	400.00		200.00
NOTHOLCA SQUAMULA		200.00	100.00
GROUP MEAN			800.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	60.00	40.00	50.00
GROUP MEAN			50.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	1960.00	570.00	1265.00
HARPACTICOID COPEPODITES	620.00	330.00	475.00
GROUP MEAN			1740.00

SITE = 2

TAXON	REP A	REP B	MEAN
COPEPODA (GENERAL)			
NAUPLII	1800.00	1800.00	1800.00
GROUP MEAN			1800.00

SITE = 3

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	600.00	6000.00	3300.00
CENTROPYXIS ECORNIS		400.00	200.00
PARAMECIUM SPECIES		200.00	100.00
GROUP MEAN			3600.00
ROTIFER			
BDELLOIDEA SPECIES	600.00	4800.00	2700.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
EUCHLANIS DILATATA	600.00		300.00
LEPADELLA PATELLA	1600.00	200.00	900.00
MONOGONONTA SPECIES	200.00	200.00	200.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
NOTHOLCA ACUMINATA	23200.00	2000.00	12600.00
NOTHOLCA SQUAMULA	3400.00		1700.00
GROUP MEAN			18600.00
OSTRACODA			
OSTRACODA SPECIES	30.00	20.00	25.00
GROUP MEAN			25.00

G-8-2 (Continued)

SITE = 3

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS		60.00	30.00
HARPACTICOID COPEPODITES		70.00	35.00
MORARIA AFFINIS		10.00	5.00
GROUP MEAN			70.00
COPEPODA (GENERAL)			
NAUPLII	200.00		100.00
GROUP MEAN			100.00

SITE = 4

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	800.00	1600.00	1200.00
CENTROPYXIS ECORNIS		200.00	100.00
GROUP MEAN			1300.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	200.00	300.00
LEPADELLA PATELLA	200.00		100.00
NOTHOLCA ACUMINATA	1000.00	600.00	800.00
NOTHOLCA SQUAMULA	1200.00	600.00	900.00
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			2200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00	10.00	10.00
GROUP MEAN			10.00
OSTRACODA			
OSTRACODA SPECIES	600.00	1070.00	835.00
GROUP MEAN			835.00

G-8-2 (Continued)

SITE = 4

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
EUCYCLOPS AGILIS		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	10.00		5.00
GROUP MEAN			10.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	90.00	50.00	70.00
HARPACTICOID COPEPODITES	20.00		10.00
GROUP MEAN			80.00
COPEPODA (GENERAL)			
NAUPLII	600.00	200.00	400.00
GROUP MEAN			400.00

SITE = 5

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
CENTROPYXIS CONSTRICTA	1000.00	400.00	700.00
DIFFLUGIA ACUMINATA	400.00	200.00	300.00
VORTICELLA SPECIES	200.00		100.00
GROUP MEAN			1300.00
ROTIFER			
BDELLOIDEA SPECIES	1200.00	400.00	800.00
CEPHALODELLA GIBBA		200.00	100.00
CEPHALODELLA VOLVOCICOLA	600.00	1200.00	900.00
COLURELLA ADRIATICA	200.00		100.00
EUCHLANIS DILATATA	200.00	400.00	300.00
LEPADELLA PATELLA	10400.00	10200.00	10300.00
MONOGONONTA SPECIES	1000.00	1600.00	1300.00
MONOSTYLA CLOSTEROCERCA	200.00	200.00	200.00
MONOSTYLA LUNARIS	200.00	400.00	300.00
NOTHOLCA ACUMINATA	7600.00	10000.00	8800.00
NOTHOLCA SQUAMULA	90200.00	85000.00	87600.00
TRICHOTRIA POCILLUM	1400.00	1400.00	1400.00
GROUP MEAN			112100.00

2.4.3.337

G-8-2 (Continued)

SITE = 5

TAXON	REP A	REP B	MEAN
CLADOCERA			
ALONA CIRCUMFIMBRIATA	30.00	20.00	25.00
CHYDORUS SPHAERICUS	10.00	10.00	10.00
GROUP MEAN			35.00
OSTRACODA			
OSTRACODA SPECIES	30.00	50.00	40.00
GROUP MEAN			40.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	20.00	10.00	15.00
CYCLOPS VERNALIS	10.00		5.00
EUCYCLOPS AGILIS	10.00	10.00	10.00
EUCYCLOPS SPERATUS		50.00	25.00
GROUP MEAN			55.00
COPEPODA (GENERAL)			
NAUPLII	600.00	600.00	600.00
GROUP MEAN			600.00

SITE = 6

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00		300.00
CENTROPYXIS CONSTRICTA	1600.00	600.00	1100.00
CENTROPYXIS ECORNIS		200.00	100.00
GROUP MEAN			1500.00
ROTIFER			
BDELLOIDEA SPECIES	4200.00	3400.00	3800.00
CEPHALODELLA GIBBA	400.00		200.00
CEPHALODELLA SPECIES	800.00	1600.00	1200.00
CEPHALODELLA VOLVOCICOLA	200.00		100.00
LEPADELLA PATELLA	400.00		200.00
NOTHOLCA ACUMINATA	200.00		100.00
NOTHOLCA SQUAMULA	800.00		400.00
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			6100.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00		10.00
GROUP MEAN			10.00

G-8-2 (Continued)

SITE = 6

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	70.00	10.00	40.00
GROUP MEAN			40.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	120.00	140.00	130.00
BRYOCAMPTUS SPECIES		30.00	15.00
HARPACTICOID COPEPODITES	210.00	160.00	185.00
MORARIA AFFINIS		20.00	10.00
GROUP MEAN			340.00
COPEPODA (GENERAL)			
NAUPLII	1200.00	1200.00	1200.00
GROUP MEAN			1200.00

G-8-2 (Continued)

SITE = 7

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	4600.00	6200.00	5400.00
GROUP MEAN			5400.00
ROTIFER			
BDELLOIDEA SPECIES	1200.00	1200.00	1200.00
CEPHALODELLA FORFICULA		200.00	100.00
CEPHALODELLA GIBBA	200.00		100.00
NOTHOLCA ACUMINATA	400.00	400.00	400.00
GROUP MEAN			1800.00
OSTRACODA			
OSTRACODA SPECIES	3040.00	3170.00	3105.00
GROUP MEAN			3105.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	10.00	30.00	20.00
GROUP MEAN			25.00

G-8-2 (Continued)

SITE = 7

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	50.00	40.00	45.00
HARPACTICOID COPEPODITES	20.00	30.00	25.00
GROUP MEAN			70.00
COPEPODA (GENERAL)			
NAUPLII	200.00	800.00	500.00
GROUP MEAN			500.00

SITE = 8

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	200.00	200.00
CENTROPYXIS CONSTRICTA	1000.00	1000.00	1000.00
GROUP MEAN			1200.00
ROTIFER			
BDELLOIDEA SPECIES	2600.00	4000.00	3300.00
CEPHALODELLA GIBBA	200.00		100.00
LEPADELLA PATELLA	200.00		100.00
MACROTRACHELA SPECIES		200.00	100.00
MONOGONONTA SPECIES	400.00	400.00	400.00
NOTHOLCA ACUMINATA	200.00	200.00	200.00
GROUP MEAN			4200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00	60.00	40.00
GROUP MEAN			40.00
OSTRACODA			
OSTRACODA SPECIES	40.00	60.00	50.00
GROUP MEAN			50.00

G-8-2 (Continued)

SITE = B

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	240.00	150.00	195.00
BRYOCAMPTUS SPECIES		20.00	10.00
HARPACTICOID COPEPODITES	230.00	280.00	255.00
MORARIA AFFINIS	40.00		20.00
GROUP MEAN			480.00
COPEPODA (GENERAL)			
NAUPLII	1400.00	600.00	1000.00
GROUP MEAN			1000.00

SITE = 9

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00		100.00
CENTROPYXIS CONSTRICTA	600.00		300.00
GROUP MEAN			400.00
ROTIFER			
CEPHALODELLA FORFICULA	200.00		100.00
LEPADELLA PATELLA		400.00	200.00
NOTHOLCA ACUMINATA	2000.00	1200.00	1600.00
NOTHOLCA SQUAMULA	6200.00	3800.00	5000.00
GROUP MEAN			6900.00
OSTRACODA			
OSTRACODA SPECIES	260.00	130.00	195.00
GROUP MEAN			195.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
PARACYCLOPS FIMBRIATUS POPPEI	10.00	10.00	10.00
GROUP MEAN			15.00

G-8-2 (Continued)

SITE = 13

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		200.00	100.00
GROUP MEAN			100.00
ROTIFER			
BDELLOIDEA SPECIES	5200.00	8600.00	6900.00
CEPHALODELLA VOLVOCICOLA	400.00	400.00	400.00
EUCHLANIS DILATATA	400.00		200.00
LEPADELLA PATELLA	2200.00	800.00	1500.00
MACROTRACHELA SPECIES		400.00	200.00
MONOGONONTA SPECIES	200.00	400.00	300.00
NOTHOLCA ACUMINATA	5000.00	2400.00	3700.00
NOTHOLCA SQUAMULA	1400.00	400.00	900.00
GROUP MEAN			14100.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00	20.00	20.00
GROUP MEAN			20.00
OSTRACODA			
OSTRACODA SPECIES	50.00	20.00	35.00
GROUP MEAN			35.00

G-8-2 (Continued)

SITE = 13

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00	10.00	10.00
GROUP MEAN			10.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	120.00	80.00	100.00
HARPACTICOID COPEPODITES	60.00	60.00	60.00
MORARIA AFFINIS		10.00	5.00
GROUP MEAN			165.00
COPEPODA (GENERAL)			
NAUPLII	400.00	1000.00	700.00
GROUP MEAN			700.00

G-8-2 (Continued)

SITE = 14

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
CILIATES UNIDENTIFIED	400.00		200.00
DIFFLUGIA GRAMEN		400.00	200.00
DIFFLUGIA LEBES	200.00	800.00	500.00
VORTICELLA SPECIES		200.00	100.00
GROUP MEAN			1200.00
ROTIFER			
BDELLOIDEA SPECIES	3000.00	3400.00	3200.00
CEPHALODELLA VOLVOCICOLA	200.00		100.00
COLURELLA ADRIATICA	400.00		200.00
EUCHLANIS DILATATA	4200.00	5600.00	4900.00
LEPADELLA PATELLA	9600.00	34800.00	22200.00
MONOGONONTA SPECIES	400.00	1200.00	800.00
MONOSTYLA CLOSTEROCERCA	1200.00	1600.00	1400.00
MONOSTYLA LUNARIS	200.00		100.00
NOTHOLCA ACUMINATA	132000.00	262800.00	197400.00
NOTHOLCA SQUAMULA	20200.00	55800.00	38000.00
GROUP MEAN			268300.00

SITE = 14

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	1630.00	950.00	1290.00
GROUP MEAN			1290.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	60.00		30.00
GROUP MEAN			30.00
COPEPODA (GENERAL)			
NAUPLII	400.00		200.00
GROUP MEAN			200.00

G-8-2 (Continued)

SITE = 15

TAXON	REP A	REP B	MEAN
PROTOZOA			
DIFFLUGIA LEBES	200.00		100.00
GROUP MEAN			100.00
ROTIFER			
BDELLOIDEA SPECIES	800.00	2200.00	1500.00
CEPHALODELLA SPECIES	200.00		100.00
CEPHALODELLA VOLVOCICOLA	1200.00	1000.00	1100.00
COLURELLA ADRIATICA		200.00	100.00
EUCHLANIS DILATATA	400.00		200.00
LEPADELLA PATELLA	2000.00	1600.00	1800.00
MONOGONONTA SPECIES	400.00	600.00	500.00
NOTHOLCA ACUMINATA	20000.00	17200.00	18600.00
NOTHOLCA SQUAMULA	400.00	600.00	500.00
GROUP MEAN			24400.00
OSTRACODA			
OSTRACODA SPECIES	10.00	30.00	20.00
GROUP MEAN			20.00

SITE = 15

TAXON	REP A	REP B	MEAN
COPEPODA (GENERAL)			
NAUPLII	400.00	200.00	300.00
GROUP MEAN			300.00

SITE = 17

TAXON	REP A	REP B	MEAN
PROTOZOA			
CHILODONELLA SPECIES	2200.00	800.00	1500.00
GROUP MEAN			1500.00
ROTIFER			
BDELLOIDEA SPECIES	200.00	800.00	500.00
CEPHALODELLA VOLVOCICOLA	200.00	200.00	200.00
LEPADELLA PATELLA		200.00	100.00
MONOGONONTA SPECIES	200.00	200.00	200.00
NOTHOLCA ACUMINATA	1600.00	600.00	1100.00
GROUP MEAN			2100.00

SITE = 18

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	200.00		100.00
CILIATES UNIDENTIFIED	1200.00	1400.00	1300.00
DIFFLUGIA LEBES		200.00	100.00
VORTICELLA SPECIES		400.00	200.00
GROUP MEAN			1700.00
ROTIFER			
BDELLOIDEA SPECIES	600.00	2400.00	1500.00
CEPHALODELLA VOLVOCICOLA	1000.00	600.00	800.00
LEPADELLA PATELLA		400.00	200.00
NOTHOLCA ACUMINATA	1000.00	1000.00	1000.00
NOTHOLCA SQUAMULA		200.00	100.00
GROUP MEAN			3600.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
GROUP MEAN			5.00

SITE = 19

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
DIFFLUGIA LEBES	400.00	1000.00	700.00
GROUP MEAN			900.00
ROTIFER			
BDELLOIDEA SPECIES	200.00	200.00	200.00
CEPHALODELLA GIBBA	400.00		200.00
CEPHALODELLA SPECIES	2000.00	600.00	1300.00
COLURELLA ADRIATICA	400.00		200.00
EUCHLANIS DILATATA	1200.00	1400.00	1300.00
LEPADELLA PATELLA	3800.00	3200.00	3500.00
MONOGONONTA SPECIES	600.00	800.00	700.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
NOTHOLCA ACUMINATA	38400.00	36400.00	37400.00
TRICHOTRIA POCILLUM	1200.00		600.00
GROUP MEAN			45500.00
CLADOCERA			
PLEUROXUS ADUNCUS		10.00	5.00
SIMOCEPHALUS VETULUS		10.00	5.00
GROUP MEAN			10.00

G-8-2 (Continued)

SITE = 19

TAXON	REP A	REP B	MEAN
OSTRACODA	10.00	100.00	55.00
OSTRACODA SPECIES			55.00
GROUP MEAN			
COPEPODA (CYCLOPOIDA)	60.00	40.00	50.00
CYCLOPOID COPEPODITES	50.00	20.00	35.00
CYCLOPS VERNALIS	60.00	30.00	45.00
EUCYCLOPS AGILIS			130.00
GROUP MEAN			
COPEPODA (HARPACTICOIDA)		10.00	5.00
BRYOCAMPTUS HIEMALIS	40.00	10.00	25.00
ELAPHOIDELLA SUBGRACILIS			30.00
GROUP MEAN			
COPEPODA (GENERAL)	600.00	600.00	600.00
NAUPLII			600.00
GROUP MEAN			
AMPHIPODA	10.00	20.00	15.00
HYALELLA AZTECA			15.00
GROUP MEAN			

G-8-2 (Continued)

SITE = 20

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		200.00	100.00
DIFFLUGIA LEBES	2000.00	3800.00	2900.00
GROUP MEAN			3000.00
ROTIFER			
BRACHIONUS QUADRIDENTATUS	1000.00	200.00	600.00
CEPHALODELLA GIBBA		800.00	400.00
CEPHALODELLA VOLVOCICOLA	1600.00	2000.00	1800.00
COLURELLA ADRIATICA	3600.00	3000.00	3300.00
EUCHLANIS DILATATA		200.00	100.00
LEPADELLA PATELLA	800.00	1400.00	1100.00
MONOGONONTA SPECIES		200.00	100.00
MONOSTYLA BULLA		200.00	100.00
TRICHOTRIA POCILLUM		400.00	200.00
GROUP MEAN			7700.00
OSTRACODA			
OSTRACODA SPECIES	40.00	50.00	45.00
GROUP MEAN			45.00

SITE = 20

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	30.00	10.00	20.00
GROUP MEAN			20.00
COPEPODA (GENERAL)			
NAUPLII		200.00	100.00
GROUP MEAN			100.00

G-8-2 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	200.00	200.00	200.00
DIFFLUGIA LEBES	3000.00	1000.00	2000.00
VORTICELLA SPECIES		200.00	100.00
GROUP MEAN			2300.00
ROTIFER			
BDELLOIDEA SPECIES	200.00		100.00
BRACHIONUS QUADRIDENTATUS	600.00	800.00	700.00
CEPHALODELLA GIBBA	1400.00	200.00	800.00
CEPHALODELLA VOLVOCICOLA	1400.00	1600.00	1500.00
COLURELLA ADRIATICA	7200.00	8200.00	7700.00
LEPADELLA PATELLA	2400.00	800.00	1600.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
NOTHOLCA ACUMINATA	400.00		200.00
TRICHOTRIA POCILLUM	200.00	800.00	500.00
GROUP MEAN			13200.00
OSTRACODA			
OSTRACODA SPECIES	50.00		25.00
GROUP MEAN			25.00

G-8-2 (Continued)

SITE = 21

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)	50.00	10.00	30.00
CYCLOPOID COPEPODITES	10.00		5.00
CYCLOPS VERNALIS	50.00	10.00	30.00
EUCYCLOPS AGILIS			65.00
GROUP MEAN			
COPEPODA (GENERAL)	1200.00	600.00	900.00
NAUPLII			900.00
GROUP MEAN			

G-8-2 (Continued)

SITE = 22

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
CENTROPYXIS CONSTRICTA	200.00		100.00
DIFFLUGIA LEBES	1400.00	600.00	1000.00
VORTICELLA SPECIES		200.00	100.00
ZOOTHAMNIUM SPECIES	1600.00	800.00	1200.00
GROUP MEAN			2600.00
ROTIFER			
BRACHIONUS QUADRIDENTATUS	200.00		100.00
CEPHALODELLA GIBBA	400.00	1000.00	700.00
CEPHALODELLA VOLVOCICOLA	600.00	400.00	500.00
COLURELLA ADRIATICA	6200.00	8800.00	7500.00
LEPADELLA PATELLA	1800.00	2400.00	2100.00
MONOSTYLA BULLA	200.00		100.00
MONOSTYLA LUNARIS		200.00	100.00
NOTHOLCA ACUMINATA	1200.00	1000.00	1100.00
NOTHOLCA SQUAMULA		200.00	100.00
TRICHOTRIA POCILLUM	200.00	200.00	200.00
GROUP MEAN			12500.00

SITE = 22

TAXON	REP A	REP B	MEAN
CLADOCERA			
CHYDORUS SPHAERICUS	20.00		10.00
GROUP MEAN			10.00
OSTRACODA			
OSTRACODA SPECIES	240.00	90.00	165.00
GROUP MEAN			165.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	180.00	210.00	195.00
CYCLOPS VERNALIS	90.00	70.00	80.00
EUCYCLOPS AGILIS		10.00	5.00
GROUP MEAN			280.00
COPEPODA (GENERAL)			
NAUPLII	1200.00	600.00	900.00
GROUP MEAN			900.00

SITE = 23

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	400.00	300.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	1000.00	400.00	700.00
DIFFLUGIA LEBES		400.00	200.00
EPISTYLIS SPECIES		3400.00	1700.00
RHABDOSTYLA SPECIES		800.00	400.00
VORTICELLA SPECIES	200.00	400.00	300.00
ZOOTHAMNIUM SPECIES	400.00	2800.00	1600.00
GROUP MEAN			5300.00
ROTIFER			
BDELLOIDEA SPECIES	200.00		100.00
CEPHALODELLA GIBBA	400.00	800.00	600.00
COLURELLA ADRIATICA		200.00	100.00
EUCHLANIS DILATATA	200.00		100.00
EUCHLANIS TRIQUETRA		200.00	100.00
LEPADELLA OVALIS		200.00	100.00
LEPADELLA PATELLA		200.00	100.00
MONOGONONTA SPECIES	1600.00	2600.00	2100.00
MONOSTYLA BULLA	200.00		100.00

SITE = 23

TAXON	REP A	REP B	MEAN
ROTIFER			
MONOSTYLA CLOSTEROCERCA	400.00		200.00
NOTHOLCA ACUMINATA	200.00	200.00	200.00
NOTHOLCA SQUAMULA		600.00	300.00
POMPHOLYX SULCATA		200.00	100.00
TRICHOTRIA TETRACTIS	200.00		100.00
GROUP MEAN			4300.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		20.00	10.00
GROUP MEAN			10.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA		40.00	20.00
KURZIA LATISSIMA	10.00		5.00
GROUP MEAN			25.00
OSTRACODA			
OSTRACODA SPECIES	20.00	10.00	15.00
GROUP MEAN			15.00

G-8-2 (Continued)

SITE = 23

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)	80.00	120.00	100.00
CYCLOPOID COPEPODITES			100.00
GROUP MEAN			
COPEPODA (CALANOIDA)		10.00	5.00
CALANOID COPEPODITES			5.00
GROUP MEAN			
COPEPODA (HARPACTICOIDA)		10.00	5.00
HARPACTICOID COPEPODITES		10.00	5.00
MORARIA AFFINIS			10.00
GROUP MEAN			
COPEPODA (GENERAL)	400.00	600.00	500.00
NAUPLII			500.00
GROUP MEAN			

SITE = 25

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	800.00	500.00
CENTROPYXIS ARCELLOIDES	200.00	400.00	300.00
CENTROPYXIS CONSTRICTA	800.00	1000.00	900.00
VORTICELLA SPECIES	200.00	200.00	200.00
ZOOTHAMNIUM SPECIES	4800.00	800.00	2800.00
GROUP MEAN			4700.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	200.00	300.00
CEPHALODELLA VOLVOCICOLA	200.00	200.00	200.00
EUCHLANIS DILATATA	200.00	200.00	200.00
LEPADELLA PATELLA	600.00	800.00	700.00
MONOGONONTA SPECIES	2600.00	5400.00	4000.00
NOTHOLCA ACUMINATA	200.00		100.00
NOTHOLCA SQUAMULA	200.00	200.00	200.00
POLYARTHRA VULGARIS	400.00	800.00	600.00
POMPHOLYX SULCATA	200.00		100.00
SCARIDIUM LONGICAUDUM	200.00		100.00
TRICHOTRIA POCILLUM	800.00		400.00
GROUP MEAN			6900.00

G-8-2 (Continued)

SITE = 25

TAXON	REP A	REP B	MEAN
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	60.00		30.00
GROUP MEAN			30.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA	10.00		5.00
CHYDORUS SPHAERICUS		10.00	5.00
GROUP MEAN			10.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00	40.00	25.00
CYCLOPS VERNALIS	10.00		5.00
GROUP MEAN			30.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	10.00	10.00	10.00
HARPACTICOID COPEPODITES	10.00		5.00
GROUP MEAN			15.00
COPEPODA (GENERAL)			
NAUPLII	600.00	600.00	600.00
GROUP MEAN			600.00

2.4.3.366

G-8-2 (Continued)

SITE = 26

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		400.00	200.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	400.00	1400.00	900.00
CYPHODERIA AMPULLA	200.00		100.00
DIFFLUGIA LEBES	400.00	200.00	300.00
EPISTYLIS SPECIES	3400.00		1700.00
VORTICELLA SPECIES	200.00	600.00	400.00
ZOOTHAMNIUM SPECIES	6400.00	6000.00	6200.00
GROUP MEAN			10000.00
ROTIFER			
ASPLANCHNA PRIODONTA	200.00		100.00
BDELLOIDEA SPECIES	400.00		200.00
CEPHALODELLA GIBBA	200.00	200.00	200.00
COLURELLA ADRIATICA		200.00	100.00
KERATELLA COCHLEARIS		200.00	100.00
LEPADELLA OVALIS		200.00	100.00
LEPADELLA PATELLA		400.00	200.00
MONOGONONTA SPECIES	3200.00	2800.00	3000.00
MONOSTYLA CLOSTEROCERCA	200.00	200.00	200.00

2.4.3.367

G-8-2 (Continued)

SITE = 26

TAXON	REP A	REP B	MEAN
ROTIFER			
NOTHOLCA SQUAMULA	200.00		100.00
POLYARTHRA VULGARIS	400.00		200.00
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			4600.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	50.00	70.00	60.00
GROUP MEAN			60.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA		10.00	5.00
CERIODAPHNIA QUADRANGULA	10.00		5.00
CHYDORUS SPHAERICUS	10.00		5.00
GROUP MEAN			15.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		40.00	20.00
GROUP MEAN			20.00

SITE = 26

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)	10.00	10.00	10.00
HARPACTICOID COPEPODITES			10.00
GROUP MEAN			
COPEPODA (GENERAL)	400.00	400.00	400.00
NAUPLII			400.00
GROUP MEAN			

SITE = 27

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00		100.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	400.00	400.00	400.00
CILIATES UNIDENTIFIED		200.00	100.00
EPISTYLIS SPECIES	200.00		100.00
VORTICELLA SPECIES	200.00		100.00
ZOOTHAMNIUM SPECIES	4200.00	2800.00	3500.00
GROUP MEAN			4400.00
ROTIFER			
BDELLOIDEA SPECIES	600.00	400.00	500.00
CEPHALODELLA FORFICULA		200.00	100.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
COLURELLA ADRIATICA	200.00	200.00	200.00
EUCHLANIS DILATATA	200.00		100.00
LECANE LUNA	400.00		200.00
LEPADELLA PATELLA	400.00	200.00	300.00
MONOGONONTA SPECIES	4800.00	4200.00	4500.00
MONOSTYLA BULLA	600.00	200.00	400.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00

SITE = 27

TAXON	REP A	REP B	MEAN
ROTIFER		400.00	200.00
MONOSTYLA LUNARIS	400.00	200.00	300.00
NOTHOLCA SQUAMULA	400.00	400.00	400.00
POLYARTHRA VULGARIS	200.00		100.00
TRICHOCERCA CYLINDRICA	200.00		100.00
TRICHOTRIA POCILLUM			
GROUP MEAN			7600.00
TARDIGRADA	60.00	70.00	65.00
TARDIGRADA UNIDENTIFIED			
GROUP MEAN			65.00
CLADOCERA	10.00		5.00
ALONA CIRCUMFIMBRIATA	10.00	30.00	20.00
CERIODAPHNIA QUADRANGULA	10.00		5.00
CHYDORUS SPHAERICUS		10.00	5.00
DAPHNIA SPECIES			
GROUP MEAN			35.00
OSTRACODA	10.00		5.00
OSTRACODA SPECIES			
GROUP MEAN			5.00

SITE = 27

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)	130.00	60.00	95.00
CYCLOPOID COPEPODITES			95.00
GROUP MEAN			
COPEPODA (HARPACTICOIDA)	40.00		20.00
BRYOCAMPTUS HIEMALIS		10.00	5.00
BRYOCAMPTUS ZSCHOKKEI	20.00	10.00	15.00
HARPACTICOID COPEPODITES		10.00	5.00
PARASTENOCARIS SPECIES			45.00
GROUP MEAN			
COPEPODA (GENERAL)	400.00	800.00	600.00
NAUPLII			600.00
GROUP MEAN			

SITE = 28

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		600.00	300.00
CENTROPYXIS ARCELLOIDES	200.00	400.00	300.00
CENTROPYXIS CONSTRICTA		2600.00	1300.00
CILIATES UNIDENTIFIED		200.00	100.00
DIFFLUGIA OBLONGA		200.00	100.00
VORTICELLA SPECIES		1600.00	800.00
ZOOTHAMNIUM SPECIES	2600.00	2800.00	2700.00
GROUP MEAN			5600.00
ROTIFER			
BDELLOIDEA SPECIES	600.00	1400.00	1000.00
BRACHIONUS QUADRIDENTATUS	200.00		100.00
CEPHALODELLA GIBBA	200.00	800.00	500.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
COLURELLA ADRIATICA		200.00	100.00
EUCHLANIS TRIQUETRA		200.00	100.00
LEPADELLA PATELLA	400.00	400.00	400.00
MONOGONONTA SPECIES	1600.00	4600.00	3100.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
NOTHOLCA SQUAMULA	600.00	800.00	700.00

SITE = 28

TAXON	REP A	REP B	MEAN
ROTIFER			
POLYARTHRA VULGARIS		200.00	100.00
TRICHOCERCA LONGISETA	200.00		100.00
GROUP MEAN			6400.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00	30.00	25.00
GROUP MEAN			25.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA	30.00	30.00	30.00
CHYDORUS SPHAERICUS	10.00		5.00
GROUP MEAN			35.00
OSTRACODA			
OSTRACODA SPECIES		20.00	10.00
GROUP MEAN			10.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	30.00	30.00	30.00
GROUP MEAN			30.00

G-8-2 (Continued)

SITE = 28

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS SPECIES		20.00	10.00
HARPACTICOID COPEPODITES	20.00	10.00	15.00
PARASTENOCARIS SPECIES	10.00	10.00	10.00
GROUP MEAN			35.00
COPEPODA (GENERAL)			
NAUPLII	200.00	200.00	200.00
GROUP MEAN			200.00

2.4.3.375

G-8-2 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		400.00	200.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	800.00	1000.00	900.00
CILIATES UNIDENTIFIED	400.00		200.00
DIFFLUGIA LEBES	200.00		100.00
EPISTYLIS SPECIES		3200.00	1600.00
VORTICELLA SPECIES	400.00		200.00
ZOOTHAMNIUM SPECIES	6400.00	5400.00	5900.00
GROUP MEAN			9300.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	200.00	300.00
CEPHALODELLA GIBBA	200.00	400.00	300.00
CEPHALODELLA SPECIES		200.00	100.00
COLURELLA ADRIATICA	200.00	200.00	200.00
EUCHLANIS DILATATA		200.00	100.00
KERATELLA COCHLEARIS		200.00	100.00
KERATELLA QUADRATA		200.00	100.00
LECANE LUNA	400.00		200.00
LEPADELLA PATELLA	400.00	400.00	400.00

SITE = 29

TAXON	REP A	REP B	MEAN
ROTIFER			
MONOGONONTA SPECIES	3400.00	3600.00	3500.00
MONOSTYLA CLOSTEROCERCA	400.00	200.00	300.00
NOTHOLCA ACUMINATA	400.00		200.00
NOTHOLCA SQUAMULA	1000.00	1000.00	1000.00
POLYARTHRA VULGARIS	200.00	600.00	400.00
TRICHOCERCA CYLINDRICA	200.00		100.00
GROUP MEAN			7300.00
TARDIGRADA	20.00	50.00	35.00
TARDIGRADA UNIDENTIFIED			35.00
GROUP MEAN			
CLADOCERA	40.00	20.00	30.00
CERIODAPHNIA QUADRANGULA	10.00		5.00
CHYDORUS SPHAERICUS			35.00
GROUP MEAN			
OSTRACODA		10.00	5.00
OSTRACODA SPECIES			5.00
GROUP MEAN			

G-8-2 (Continued)

SITE = 29

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)	40.00	60.00	50.00
CYCLOPOID COPEPODITES			50.00
GROUP MEAN			
COPEPODA (HARPACTICOIDA)	20.00		10.00
BRYOCAMPTUS SPECIES		20.00	10.00
ELAPHOIDELLA SUBGRACILIS	20.00	20.00	20.00
PARASTENOCARIS SPECIES			40.00
GROUP MEAN			
COPEPODA (GENERAL)	800.00	400.00	600.00
NAUPLII			600.00
GROUP MEAN			

SITE = 31

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		600.00	300.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	800.00	1400.00	1100.00
CYPHODERIA AMPULLA	200.00		100.00
DIFFLUGIA ACUMINATA	200.00		100.00
EPISTYLIS SPECIES		200.00	100.00
ZOOTHAMNIUM SPECIES	2000.00	4600.00	3300.00
GROUP MEAN			5100.00
ROTIFER			
BDELLOIDEA SPECIES	600.00		300.00
CEPHALODELLA GIBBA	800.00	400.00	600.00
CEPHALODELLA VOLVOCICOLA	400.00		200.00
KERATELLA COCHLEARIS	200.00		100.00
LECANE LUNA	400.00		200.00
LEPADELLA OVALIS	200.00		100.00
LEPADELLA PATELLA		1000.00	500.00
MONOGONONTA SPECIES	3000.00	3600.00	3300.00
MONOSTYLA BULLA	200.00		100.00
MONOSTYLA LUNARIS	200.00	400.00	300.00

SITE = 31

TAXON	REP A	REP B	MEAN
ROTIFER			
NOTHOLCA ACUMINATA	200.00	400.00	300.00
NOTHOLCA SQUAMULA	400.00	600.00	500.00
PLATYIAS QUADRICORNIS	200.00		100.00
POLYARTHRA EURYPTERA		200.00	100.00
POLYARTHRA VULGARIS	200.00		100.00
PUMPHOLYX SULCATA	200.00	200.00	200.00
SYNCHAETA SPECIES	200.00		100.00
TRICHOTRIA POCILLUM	200.00		100.00
GROUP MEAN			7200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	60.00	20.00	40.00
GROUP MEAN			40.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA	20.00		10.00
DAPHNIA SPECIES		10.00	5.00
GROUP MEAN			15.00

SITE = 31

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	150.00	160.00	155.00
CYCLOPS BICUSPIDATUS THOMASI	10.00		5.00
GROUP MEAN			160.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	20.00		10.00
MORARIA AFFINIS		10.00	5.00
PARASTENOCARIS SPECIES	10.00	10.00	10.00
GROUP MEAN			25.00
COPEPODA (GENERAL)			
NAUPLII	800.00	1000.00	900.00
GROUP MEAN			900.00

G-8-2 (Continued)

SITE = 32

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00		300.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	1000.00	1200.00	1100.00
DIFFLUGIA LEBES		200.00	100.00
VORTICELLA SPECIES		200.00	100.00
ZOOTHAMNIUM SPECIES	4800.00	4200.00	4500.00
GROUP MEAN			6200.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	600.00	500.00
CEPHALODELLA GIBBA	400.00	200.00	300.00
COLURELLA ADRIATICA		200.00	100.00
EUCHLANIS DILATATA	200.00		100.00
KERATELLA COCHLEARIS		200.00	100.00
LECANE LUNA		200.00	100.00
LEPADELLA PATELLA	800.00		400.00
MONOGONONTA SPECIES	2600.00	1800.00	2200.00
MONOSTYLA BULLA		800.00	400.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
NOTHOLCA SQUAMULA	200.00	400.00	300.00

SITE = 32

TAXON	REP A	REP B	MEAN
ROTIFER			
POLYARTHRA EURYPTERA	200.00		100.00
POLYARTHRA VULGARIS		200.00	100.00
POMPHOLYX SULCATA	400.00		200.00
TRICHOTRIA POCILLUM	400.00		200.00
GROUP MEAN			5200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00		5.00
GROUP MEAN			5.00
CLADOCERA			
SCAPHOLEBERIS AURITA	10.00		5.00
GROUP MEAN			5.00
OSTRACUDA			
OSTRACODA SPECIES		10.00	5.00
GROUP MEAN			5.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	150.00	140.00	145.00

G-8-2 (Continued)

SITE = 32

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPS BICUSPIDATUS THOMASI	20.00		10.00
GROUP MEAN			155.00
COPEPODA (HARPACTICOIDA)			
MORARIA AFFINIS	10.00		5.00
GROUP MEAN			5.00
COPEPODA (GENERAL)			
NAUPLII	600.00	600.00	600.00
GROUP MEAN			600.00

SITE = 35

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		600.00	300.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	800.00	1200.00	1000.00
CYPHODERIA AMPULLA		200.00	100.00
DIFFLUGIA ACUMINATA	200.00		100.00
DIFFLUGIA LEBES		200.00	100.00
ZOOTHAMNIUM SPECIES	2000.00	1000.00	1500.00
GROUP MEAN			3300.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	800.00	600.00
CEPHALODELLA GIBBA	600.00		300.00
EUCHLANIS DILATATA	200.00	200.00	200.00
KERATELLA QUADRATA	200.00		100.00
LEPADELLA PATELLA	600.00	1000.00	800.00
MONOGONONTA SPECIES	3400.00	2000.00	2700.00
MONOSTYLA BULLA	400.00	1000.00	700.00
MONOSTYLA CLOSTEROCERCA	200.00	200.00	200.00
NOTHOLCA ACUMINATA	200.00		100.00
NOTHOLCA SQUAMULA	600.00	800.00	700.00

2.4.3.385

G-8-2 (Continued)

SITE = 35

TAXON	REP A	REP B	MEAN
ROTIFER	200.00		100.00
TRICHOTRIA POCILLUM			6500.00
GROUP MEAN			
CLADOCERA		30.00	15.00
CERIODAPHNIA QUADRANGULA		10.00	5.00
CHYDORUS SPHAERICUS		10.00	5.00
DAPHNIA SPECIES			25.00
GROUP MEAN			
OSTRACODA		10.00	5.00
OSTRACODA SPECIES			5.00
GROUP MEAN			
COPEPODA (CYCLOPOIDA)	10.00		5.00
CYCLOPS VERNALIS	10.00		5.00
EUCYCLOPS AGILIS			10.00
GROUP MEAN			
COPEPODA (HARPACTICOIDA)	30.00		15.00
BRYOCAMPTUS HIEMALIS			

SITE = 35

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS SPECIES		10.00	5.00
ELAPHOIDELLA SUBGRACILIS	10.00		5.00
MORARIA AFFINIS		10.00	5.00
GROUP MEAN			30.00
COPEPODA (GENERAL)			
NAUPLII	400.00	200.00	300.00
GROUP MEAN			300.00

2.4.4 Periphyton

A list of algal taxa observed in the periphyton during the May - June 1976 sampling is presented in Appendix G-10-1. A total of 99 taxa were observed in the May - June collections. Quantitative periphyton data from natural substrates are presented in Appendix G-10-2 and data from artificial substrates are presented in Appendix G-10-4.

During May - June 1976, the most abundant algal taxa in the periphyton of the headwater stations were the diatoms Achnanthes minutissima and Gomphonema intricatum and the chrysophyte Bicoeca lacustris, which was particularly abundant at Station 3. At the tract stations, the most abundant taxa included the diatoms Achnanthes minutissima and Navicula pelliculosa, the blue-greens Calothrix spp., and the chrysophyte Bicoeca lacustris. In Yellow Creek, the dominant taxa were the diatoms Achnanthes minutissima, Navicula pelliculosa, Nitzschia frustulum, and Cyclotella meneghiniana, whereas in the White River, the dominant taxa included the blue-greens Calothrix spp. and Lyngbya spp. and the diatoms Navicula cryptocephala, Navicula tripunctata, Amphora ovalis var. pediculus, Nitzschia dissipata, Nitzschia frustulum, and Achnanthes minutissima.

The most abundant algal taxa collected from artificial substrates in Yellow Creek were Achnanthes minutissima, Cyclotella meneghiniana, Nitzschia frustulum, and Fragilaria vaucheriae. In the White River, Cocconeis pediculus and Cocconeis placentula were very abundant on artificial substrates.

2.4.4 - Periphyton Data

RBOSP PROGRESS REPORT

APPENDIX G-9-1

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1976

APPENDIX G-9-1

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, APRIL 1976.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
2-A	0.3497	0.1279
2-B	0.0553	0.0092
2-C	0.0820	0.0128
3-A	0.5118	0.0220
3-B	0.0989	0.0070
3-C	0.2874	0.0178
4-A	0.1467	0.0235
4-B	0.2676	0.0205
4-C	0.1671	0.0171
5-A	0.3465	0.0405
5-B	0.2916	0.0385
5-C	0.6217	0.0704
7-A	0.0799	0.0064
7-B	0.1875	0.0079
7-C	0.0696	0.0077
8-A	0.8957	0.0930
8-B	0.5162	0.1731
8-C	0.2221	0.0460
9-A	0.2330	0.0215
9-B	0.2196	0.0202
9-C	0.1533	0.0140
13-A	0.5386	0.1156
13-B	0.7003	0.1356
13-C	0.6360	0.1380
14-A	0.2954	0.0366
14-B	0.4683	0.0495
14-C	2.2556	0.0989
15-A	0.7992	0.0652
15-B	3.6579	0.2135
15-C	0.3973	0.0322
17-A	0.4213	0.0233
17-B	0.5724	0.0234
17-C	0.6444	0.0284
18-A	0.6175	0.0290
18-B	2.3600	0.1250
18-C	0.4143	0.0237

[1] Stations 1, 6, 10 - 12, and 16 were dry or inaccessible during sampling period.

APPENDIX G-9-1 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
19-A	0.1677	0.0333
19-B	0.1118	0.8532
19-C	1.3238	0.2397
20-A	0.2533	0.0342
20-B	0.3175	0.0369
20-C	0.3369	0.0559
21-A	0.2313	0.0360
21-B	0.2723	0.0368
21-C	0.2795	0.0402
22-A	0.2290	0.0301
22-B	0.1981	0.0279
22-C	0.5047	0.0381
23-A	4.5625	0.1421
23-B	4.7795	0.1857
23-C	8.4796	0.3055
24-A	6.3436	0.3526
24-B	1.4330	0.0519
24-C	2.9704	0.1250
25-A	3.7753	0.2713
25-B	4.5273	0.3122
25-C	5.4451	0.3708
26-A	6.9882	0.5706
26-B	4.3810	0.1104
26-C	11.8927	Lab. Error
27-A	2.6938	0.2143
27-B	5.1361	0.4255
27-C	1.1659	0.3332
28-A	1.1666	0.0703
28-B	1.0118	0.0649
28-C	1.0041	0.0633
29-A	2.6977	0.1145
29-B	2.6448	0.1903
29-C	0.4431	0.0447
30-A	1.4510	0.0962
30-B	4.3502	0.2426
30-C	9.6352	0.7042
31-A	2.1785	0.1849
31-B	5.1744	0.2552
31-C	2.0915	0.1581
32-A	2.0649	0.1635
32-B	3.7676	0.2232
32-C	2.1068	0.1551
33-A	0.1915	0.0330
33-B	0.2188	0.0300
33-C	0.3161	0.0310

APPENDIX G-9-1 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
34-A	0.1965	0.0115
34-B	2.3510	0.1683
34-C	2.3222	0.1330
35-A	6.1062	0.5712
35-B	3.4821	0.3573
35-C	1.3183	0.1216

APPENDIX G-9-2

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES RBOSP AQUATIC BASELINE STUDIES APRIL 1976

APPENDIX G-9-2

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, APRIL 1976.

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.2737	0.0371
20-B	0.1836	0.0240
20-C	0.1938	0.0256
21-A	0.2796	0.0308
21-B	0.2788	0.0316
21-C	0.2153	0.0282
23-A	0.4083	0.0304
23-B	0.5821	0.0531
27-A	0.2995	0.0226
27-B	0.5992	0.0366
27-C	0.3169	0.0190
29-A	0.9554	0.0609
29-B	0.4963	0.0312
29-C	0.7958	0.0549
35-A	0.4573	0.0321
35-B	0.5527	0.0428
35-C	0.3575	0.0241

RBOSP PROGRESS REPORT

APPENDIX G-9-3

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES APRIL 1976

APPENDIX G-9-3

CHLOROPHYLL a OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1976.[1]
(Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
2	.0004	.0003	.0019
3	.0003	.0003	.0011
4	.0007	.0006	.0036
5	.0019	.0059	.0010
7	<.0001	.0005	.0023
8	.0036	.0032	.0023
9	.0003	.0001	.0004
13	.0206	.0610	.0446
14	.0022	.0007	.0018
15	.0012	.0021	.0006
17	.0002	.0002	.0008
18	.0013	.0008	.0012
19	.0009	.0012	.0180
20	.0019	.0036	.0012
21	.0032	.0037	.0022
22	<.0001	.0069	.0031
23	.0009	.0194	.0320
24	.0163	.0198	.0160
25	.0219	.0265	.0071
26	.0225	.0249	.0195
27	.0394	.0061	.0142
28	.0218	.0080	.0035
29	.0123	.0040	.0218
30	.0108	.0265	.0039
31	.0152	.0124	.0096
32	.0171	.0090	.0014
33	.0014	.0027	.0003
34	.0048	.0127	<.0001
35	.0038	.0026	.0466

[1] Stations 1, 6, 10 - 12, 16 were dry or inaccessible at the time of sampling.

RBOSP PROGRESS REPORT

APPENDIX G-9-4

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1976

APPENDIX G-9-4

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, APRIL 1976.
(Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
20	.0029	.0103	.0012
21	.0027	.0015	.0032
23	<.0001	.0166	.0390
27	.0017	.0022	.0160
29	.0063	.0045	.0200
35	.0106	.0062	.0003

RBOSP PROGRESS REPORT

APPENDIX G-10-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-10-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.

CYANOPHYTA

- LYNGBYA SPP
- OSCILLATORIA SPP
- ANABAENA SPP
- NODULARIA SPP
- CALOTHRIX SPP

CHLOROPHYTA

- CLADOPHORA SPP
- SPIROGYRA SPP
- CHLOROPHYTA I

CHRYSOPHYTA

- BICOECA LACUSTRIS
- MELOSIRA AMBIGUA
- CYCLOTELLA MENEGHINIANA
- STEPHANODISCUS ASTRAEA
- DIATOMA TENUE VAR. ELONGATUM
- DIATOMA VULGARE
- MERIDION CIRCULARE
- FRAGILARIA CONSTRUENS
- FRAGILARIA CROTONENSIS
- FRAGILARIA LEPTOSTAURON
- FRAGILARIA PINNATA
- FRAGILARIA VAUCHERIAE

RBOSP PROGRESS REPOF

CHRYSOPHYTA

SYNEDRA AMPHICEPHALA
SYNEDRA PULCHELLA
SYNEDRA ULNA
ASTERIONELLA FORMOSA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES HAUCKIANA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
MASTOGLOIA SMITHII
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
STAURONEIS SMITHII
ANOMOEONEIS SPHAEROPHORA
NAVICULA ARVENSIS
NAVICULA CAPITATA
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA GREGARIA
NAVICULA LANCEOLATA

CHRYSOPHYTA

NAVICULA MINIMA
NAVICULA OBLONGA
NAVICULA PELLICULOSA
NAVICULA RADIOSA
NAVICULA SALINARUM VAR. INTERMEDIA
NAVICULA SUBHAMULATA
NAVICULA TRIPUNCTATA
NAVICULA VAUCHERIAE
NAVICULA VIRIDULA
NAVICULA SPP
NAVICULA SP 1
NAVICULA SP 2
NAVICULA SP 4
CALONEIS AMPHISBAENA
CALONEIS BACILLUM
CALONEIS VENTRICOSA
AMPHORA MONTANA
AMPHORA OVALIS
AMPHORA OVALIS VAR. PEDICULUS
CYMBELLA AFFINIS
CYMBELLA MICROCEPHALA

CHRYSOPHYTA

CYMBELLA PROSTRATA
CYMBELLA SINUATA
CYMBELLA VENTRICOSA
CYMBELLA SP 1
DIDYMOSPHENIA GEMINATA
GOMPHONEMA AFFINE
GOMPHONEMA INTRICATUM
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA VENTRICOSUM
GOMPHONEMA SP 1
AMPHIPRORA ALATA
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA CHASEI

CHRYSOPHYTA

NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FRUSTULUM
NITZSCHIA HOLSATICA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA MICROCEPHALA
NITZSCHIA PALEA
NITZSCHIA SIGMA
NITZSCHIA SIGMOIDEA
NITZSCHIA THERMALIS
NITZSCHIA TRYBLIONELLA
NITZSCHIA SP 1
CYMATOPLEURA ELLIPTICA
CYMATOPLEURA SOLEA

CRYPTOPHYTA

CRYPTOMONAS EROSA

APPENDIX G-10-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-10-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976. (Site = Station; Rep = Replicate)[1]

SITE = 1

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	37.00	49.00		28.67
GROUP MEAN				28.67
CHRYSOPHYTA				
BICOECA LACUSTRIS	328.00	182.00		170.00
MERIDION CIRCULARE		7.00		2.33
SYNEDRA ULNA		.18		.06
COCCONEIS PEDICULUS		14.00	16.00	10.00
ACHNANTHES LANCEOLATA	2.00	35.00		12.33
ACHNANTHES MINUTISSIMA	68.00	490.00		186.00
GYROSIGMA ACUMINATUM	.04			.01
NAVICULA CRYPTOCEPHALA		28.00	3.00	10.33
NAVICULA SALINARUM VAR. INTERMEDIA		35.00	3.00	12.67
NAVICULA TRIPUNCTATA			10.00	3.33
NAVICULA VIRIDULA			3.00	1.00
NAVICULA SPP		7.00		2.33
GOMPHONEMA INTRICATUM	35.00	1519.00		518.00
GOMPHONEMA OLIVACEUM			7.00	2.33
NITZSCHIA ACICULARIS		7.00		2.33
NITZSCHIA APICULATA	2.00			.67

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

SITE = 1

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CAPITELLATA	2.00			.67
NITZSCHIA DISSIPATA			3.00	1.00
NITZSCHIA FRUSTULUM	2.00		3.00	1.67
CYMATOPLEURA SOLEA		.06	.09	.05
GROUP MEAN				937.12

G-10-2 (Continued)

SITE = 2

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
OSCILLATORIA SPP		40.00		13.33
GROUP MEAN				13.33
CHLOROPHYTA				
CLADOPHORA SPP		.36		.12
GROUP MEAN				.12
CHRYSOPHYTA				
BICOECA LACUSTRIS	903.00	399.00	756.00	686.00
FRAGILARIA VAUCHERIAE		3.00		1.00
SYNEDRA AMPHICEPHALA		7.00		2.33
SYNEDRA ULNA		.09		.03
ACHNANTHES LANCEOLATA	7.00	33.00		13.33
ACHNANTHES MINUTISSIMA	217.00	73.00	140.00	143.33
NAVICULA ARVENSIS		10.00		3.33
NAVICULA CAPITATA		10.00		3.33
NAVICULA CRYPTOCEPHALA	7.00	73.00	198.00	92.67
NAVICULA LANCEOLATA		3.00		1.00
NAVICULA MINIMA		7.00		2.33
NAVICULA SP 2	7.00			2.33

SITE = 2

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SP 4		3.00		1.00
CYMBELLA AFFINIS	7.00			2.33
GOMPHONEMA INTRICATUM	14.00	3.00	9.00	8.67
NITZSCHIA CAPITELLATA		33.00		11.00
NITZSCHIA DISSIPATA		73.00		24.33
NITZSCHIA FRUSTULUM		3.00		1.00
NITZSCHIA LINEARIS	.12		.04	.05
NITZSCHIA THERMALIS	.06			.02
NITZSCHIA TRYBLIONELLA		3.00		1.00
NITZSCHIA SP 1			4.00	1.33
SURIRELLA OVALIS		.03		.01
GROUP MEAN				1001.78

G-10-2 (Continued)

SITE = 3

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS	13068.00	17460.00	14085.00	14871.00
SYNEDRA ULNA		.04	.04	.03
ACHNANTHES LANCEOLATA	13.00	9.00	32.00	18.00
ACHNANTHES MINUTISSIMA	125.00	99.00	68.00	97.33
STAURONEIS SMITHII	3.00			1.00
ANOMOEONEIS SPHAEROPHORA			4.00	1.33
NAVICULA CRYPTOCEPHALA	40.00	32.00	4.00	25.33
NAVICULA PELLICULOSA	7.00	14.00	4.00	8.33
NAVICULA SP 1		4.00	4.00	2.67
CALONEIS BACILLUM		4.00	4.00	2.67
AMPHORA OVALIS	3.00		4.00	2.33
CYMBELLA MICROCEPHALA		4.00		1.33
GOMPHONEMA INTRICATUM	23.00		4.00	9.00
NITZSCHIA CAPITELLATA	7.00			2.33
NITZSCHIA DENTICULA		4.00		1.33
NITZSCHIA FRUSTULUM	20.00	32.00	22.00	24.67
NITZSCHIA LATENS		14.00	14.00	9.33
NITZSCHIA LINEARIS	.06	.28	.08	.14
SURIRELLA OVATA	3.00			1.00
SURIRELLA OVALIS	7.00	9.00	.36	5.45
GROUP MEAN				15084.62

SITE = 4

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS	117.00	205.00	314.00	212.00
MELOSIRA AMBIGUA		2.00		.67
DIATOMA TENUE VAR. ELONGATUM		2.00		.67
ASTERIONELLA FORMOSA		2.00		.67
ACHNANTHES LANCEOLATA	22.00	33.00	66.00	40.33
ACHNANTHES MINUTISSIMA	418.00	295.00	116.00	276.33
GYROSIGMA ACUMINATUM	.04		.06	.03
NAVICULA ARVENSIS		13.00		4.33
NAVICULA CRYPTOCEPHALA	14.00	4.00	16.00	11.33
NAVICULA PELLICULOSA	9.00	35.00	50.00	31.33
NAVICULA SP 1			20.00	6.67
NAVICULA SP 2			3.00	1.00
GOMPHONEMA INTRICATUM		4.00	13.00	5.67
NITZSCHIA CAPITELLATA	4.00	2.00		2.00
NITZSCHIA DENTICULA	9.00		7.00	5.33
NITZSCHIA FRUSTULUM	4.00	2.00	3.00	3.00
NITZSCHIA LINEARIS	.12	.14	.48	.25
GROUP MEAN				601.61

G-10-2 (Continued)

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS		18.00	82.00	33.33
CYCLOTELLA MENEGHINIANA	7.00		10.00	5.67
SYNEDRA AMPHICEPHALA	14.00			4.67
SYNEDRA ULNA	.48		3.00	1.16
ACHNANTHES LANCEOLATA		4.00	7.00	3.67
ACHNANTHES MINUTISSIMA	3577.00	544.00	2653.00	2258.00
GYROSIGMA ACUMINATUM	.12	.20	.06	.13
PLEUROSIGMA DELICATULUM	7.00	.16	.36	2.51
NAVICULA CRYPTOCEPHALA	91.00	18.00	16.00	41.67
NAVICULA OBLONGA		.08		.03
NAVICULA PELLICULOSA		9.00		3.00
NAVICULA RADIOSA	28.00			9.33
NAVICULA SP 1			3.00	1.00
CALONEIS VENTRICOSA			3.00	1.00
CYMBELLA AFFINIS	56.00		7.00	21.00
CYMBELLA MICROCEPHALA	504.00	9.00	10.00	174.33
CYMBELLA VENTRICOSA	133.00	45.00	30.00	69.33
GOMPHONEMA INTRICATUM	70.00		13.00	27.67
GOMPHONEMA OLIVACEUM			3.00	1.00
GOMPHONEMA SP 1	42.00	14.00	10.00	22.00

2.4.4.973

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
EPITHEMIA ZEBRA	.12			.04
RHOPALODIA GIBBA	.06	.04		.03
NITZSCHIA ACICULARIS	7.00			2.33
NITZSCHIA FRUSTULUM	21.00	4.00	3.00	9.33
NITZSCHIA LINEARIS	7.00		.27	2.42
SURIRELLA OVATA	84.00	4.00	26.00	38.00
SURIRELLA OVALIS	7.00	4.00	3.00	4.67
GROUP MEAN				2737.32
CRYPTOPHYTA				
CRYPTOMONAS EROSA	7.00			2.33
GROUP MEAN				2.33

G-10-2 (Continued)

SITE = 6

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
SPIROGYRA SPP	.27			.09
GROUP MEAN				.09
CHRYSOPHYTA				
BICOECA LACUSTRIS	15.00			5.00
CYCLOTELLA MENEGHINIANA			21.00	7.00
MERIDION CIRCULARE	2.00			.67
FRAGILARIA CONSTRUENS	2.00			.67
FRAGILARIA VAUCHERIAE		1.00		.33
SYNEDRA AMPHICEPHALA	5.00			1.67
SYNEDRA ULNA		1.00		.33
ACHNANTHES LANCEOLATA	2.00	1.00		1.00
ACHNANTHES MINUTISSIMA	342.00	4.00	91.00	145.67
GYROSIGMA ACUMINATUM	.06	.05	.06	.06
NAVICULA ARVENSIS	7.00			2.33
NAVICULA CRYPTOCEPHALA	3.00	1.00	35.00	13.00
NAVICULA PELLICULOSA		1.00	14.00	5.00
NAVICULA SP 1	2.00			.67
NAVICULA SP 2		2.00		.67
AMPHORA MONTANA	2.00			.67

SITE = 6

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS			7.00	2.33
CYMBELLA AFFINIS		1.00		.33
CYMBELLA MICROCEPHALA	7.00			2.33
CYMBELLA VENTRICOSA	2.00			.67
GOMPHONEMA INTRICATUM	14.00	2.00	14.00	10.00
GOMPHONEMA OLIVACEUM			28.00	9.33
HANTZSCHIA AMPHIOXYS		.02		.01
NITZSCHIA CAPITELLATA		2.00		.67
NITZSCHIA FRUSTULUM	2.00	1.00	252.00	85.00
NITZSCHIA LINEARIS	2.00	2.00		1.33
SURIRELLA OVATA	3.00	8.00	7.00	6.00
SURIRELLA OVALIS	.03			.01
GROUP MEAN				302.74

G-10-2 (Continued)

SITE = 7

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA PALEA	28.00			9.33
SURIRELLA OVATA	14.00			4.67
SURIRELLA OVALIS	7.00	.08	.12	2.40
GROUP MEAN				7566.58

2.4.4.977

SITE = 7

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS	602.00	675.00	84.00	453.67
ACHNANTHES LANCEOLATA			14.00	4.67
ACHNANTHES MINUTISSIMA	10885.00	6696.00	2569.00	6716.67
GYROSIGMA ACUMINATUM	1.00	.40	.66	.69
NAVICULA ARVENSIS	14.00	45.00		19.67
NAVICULA CRYPTOCEPHALA	54.00	18.00	84.00	52.00
NAVICULA PELLICULOSA			14.00	4.67
NAVICULA VIRIDULA			7.00	2.33
NAVICULA SP 2			21.00	7.00
AMPHORA OVALIS			14.00	4.67
CYMBELLA AFFINIS	14.00			4.67
GOMPHONEMA INTRICATUM	14.00	63.00	98.00	58.33
GOMPHONEMA PARVULUM	217.00		14.00	77.00
GOMPHONEMA SP 1	14.00			4.67
CYLINDROTHECA GRACILIS	7.00		7.00	4.67
NITZSCHIA CAPITELLATA			21.00	7.00
NITZSCHIA DENTICULA	140.00	27.00	42.00	69.67
NITZSCHIA FRUSTULUM	21.00	27.00	91.00	46.33
NITZSCHIA LATENS			14.00	4.67
NITZSCHIA LINEARIS	7.00	.48	14.00	7.16

G-10-2 (Continued)

SITE = 8

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	1862.00	10.00		624.00
GROUP MEAN				624.00
CHRYSOPHYTA				
BICOECA LACUSTRIS	336.00	12.00	45.00	131.00
MERIDION CIRCULARE			9.00	3.00
ACHNANTHES LANCEOLATA	35.00	2.00	18.00	18.33
ACHNANTHES MINUTISSIMA	5782.00	126.00	1989.00	2632.33
GYROSIGMA ACUMINATUM		.03		.01
NAVICULA ARVENSIS	28.00		315.00	114.33
NAVICULA CRYPTOCEPHALA		2.00	54.00	18.67
NAVICULA PELLICULOSA		7.00	3033.00	1013.33
CYMBELLA AFFINIS	7.00			2.33
CYMBELLA VENTRICOSA	14.00			4.67
GOMPHONEMA INTRICATUM	112.00	7.00	207.00	108.67
NITZSCHIA CAPITELLATA		2.00		.67
NITZSCHIA DISSIPATA		3.00		1.00
NITZSCHIA FRUSTULUM		2.00	72.00	24.67
NITZSCHIA LINEARIS	7.00	.06	.16	2.41
GROUP MEAN				4075.42

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS	81.00	18.00	42.00	47.00
MERIDION CIRCULARE	4.00			1.33
SYNEDRA AMPHICEPHALA		1.00		.33
ACHNANTHES LANCEOLATA	18.00	8.00	11.00	12.33
ACHNANTHES MINUTISSIMA	59.00	40.00	76.00	58.33
GYROSIGMA ACUMINATUM		.02		.01
NAVICULA ARVENSIS	4.00	1.00		1.67
NAVICULA CRYPTOCEPHALA	33.00	27.00	13.00	24.33
NAVICULA PELLICULOSA	15.00	4.00	6.00	8.33
NAVICULA SP 2	2.00	3.00	2.00	2.33
CALONEIS BACILLUM		1.00		.33
CYMBELLA AFFINIS	2.00			.67
GOMPHONEMA INTRICATUM	15.00	6.00		7.00
CYLINDROTHECA GRACILIS	2.00			.67
NITZSCHIA CAPITELLATA	26.00			8.67
NITZSCHIA DENTICULA		1.00		.33
NITZSCHIA FRUSTULUM	18.00	6.00	2.00	8.67
NITZSCHIA HOLSATICA	4.00	1.00		1.67
NITZSCHIA LATENS	15.00	6.00		7.00
NITZSCHIA LINEARIS	64.00	18.00	2.00	28.00

G-10-2 (Continued)

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA PALEA			1.00	.33
SURIRELLA OVATA	15.00	3.00	1.00	6.33
SURIRELLA OVALIS	4.00	1.00	.06	1.69
GROUP MEAN				227.36

SITE = 13

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS	142.00			71.00
SYNEDRA AMPHICEPHALA			3.00	1.50
SYNEDRA ULNA	.08			.04
ACHNANTHES LANCEOLATA	7.00		10.00	8.50
ACHNANTHES MINUTISSIMA	337.00		63.00	200.00
NAVICULA ARVENSIS			3.00	1.50
NAVICULA CRYPTOCEPHALA	56.00		13.00	34.50
NAVICULA PELLICULOSA	30.00			15.00
NAVICULA VIRIDULA	3.00			1.50
NAVICULA SP 1	7.00			3.50
GOMPHONEMA INTRICATUM	7.00		13.00	10.00
EPITHEMIA ZEBRA	.08			.04
RHOPALODIA GIBBA	3.00			1.50
NITZSCHIA FRUSTULUM	10.00		3.00	6.50
NITZSCHIA LINEARIS	.24			.12
SURIRELLA OVALIS			.03	.02
GROUP MEAN				355.22

G-10-2 (Continued)

SITE = 14

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICUFCA LACUSTRIS	6951.00	10030.00	2730.00	6570.33
CYCLOTELLA MENEGHINIANA	77.00	85.00	14.00	58.67
FRAGILARIA VAUCHERIAE	7.00			2.33
SYNEDRA AMPHICEPHALA	42.00	17.00		19.67
SYNEDRA ULNA	70.00	51.00	28.00	49.67
ACHNANTHES MINUTISSIMA	7378.00	4420.00	938.00	4245.33
NAVICULA ARVENSIS	84.00	68.00		50.67
NAVICULA CRYPTOCEPHALA	147.00	204.00	42.00	131.00
NAVICULA CUSPIDATA	.04			.01
NAVICULA GREGARIA	7.00			2.33
NAVICULA PELLICULOSA		17.00	28.00	15.00
NAVICULA VIRIDULA	14.00			4.67
NAVICULA SP 1	56.00	17.00		24.33
NAVICULA SP 2		34.00	14.00	16.00
NAVICULA SP 4		17.00		5.67
CALONEIS VENTRICOSA		17.00		5.67
CYMBELLA AFFINIS	35.00	34.00	42.00	37.00
CYMBELLA MICROCEPHALA		17.00		5.67
CYMBELLA VENTRICOSA	35.00			11.67
GOMPHONEMA INTRICATUM	49.00	51.00		33.33

2.4.4.983

SITE = 14

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CAPITELLATA	14.00		14.00	9.33
NITZSCHIA DENTICULA	273.00	170.00	28.00	157.00
NITZSCHIA FRUSTULUM	49.00	17.00		22.00
NITZSCHIA LATENS		34.00		11.33
SURIRELLA OVATA		17.00		5.67
SURIRELLA OVALIS	.16	.45		.20
GROUP MEAN				11494.55

G-10-2 (Continued)

SITE = 15

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
SPIROGYRA SPP	.60			.20
GROUP MEAN				.20
CHRYSOPHYTA				
BICOECA LACUSTRIS	217.00	157.00	1629.00	667.67
CYCLOTELLA MENEGHINIANA	21.00	9.00	18.00	16.00
FRAGILARIA CONSTRUENS			4.00	1.33
SYNEDRA AMPHICEPHALA	14.00			4.67
ACHNANTHES LANCEOLATA	196.00	292.00	256.00	248.00
ACHNANTHES MINUTISSIMA	63.00	270.00	284.00	205.67
GYROSIGMA ACUMINATUM			.04	.01
NAVICULA ARVENSIS			4.00	1.33
NAVICULA CRYPTOCEPHALA	49.00	50.00	18.00	39.00
NAVICULA PELLICULOSA	623.00	860.00	1224.00	902.33
NAVICULA TRIPUNCTATA			4.00	1.33
NAVICULA SP 1	7.00	4.00	9.00	6.67
NAVICULA SP 2			4.00	1.33
CYMBELLA AFFINIS			4.00	1.33
GOMPHONEMA INTRICATUM	105.00	50.00	45.00	66.67
NITZSCHIA FRUSTULUM	42.00	36.00	9.00	29.00

2.4.4.985

G-10-2 (Continued)

SITE = 15

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA PALEA		9.00		3.00
NITZSCHIA SP 1	14.00			4.67
GROUP MEAN				2200.01

G-10-2 (Continued)

SITE = 18

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP		.06	27.00	9.02
GROUP MEAN				9.02
CHRYSOPHYTA				
BICOECA LACUSTRIS	2898.00	287.00	2403.00	1862.67
CYCLOTELLA MENEGHINIANA	42.00	21.00	36.00	33.00
SYNEDRA AMPHICEPHALA	28.00			9.33
SYNEDRA ULNA	.12			.04
ACHNANTHES LANCEOLATA	168.00	266.00	180.00	204.67
ACHNANTHES MINUTISSIMA	42.00	28.00	225.00	98.33
RHOICOSPHENIA CURVATA			9.00	3.00
NAVICULA CRYPTOCEPHALA	28.00	49.00	45.00	40.67
NAVICULA MINIMA		7.00		2.33
NAVICULA PELLICULOSA	896.00	406.00	1440.00	914.00
NAVICULA SP 1	28.00			9.33
NAVICULA SP 2		21.00		7.00
CYMBELLA PROSTRATA			9.00	3.00
GOMPHONEMA INTRICATUM	14.00	35.00	54.00	34.33
NITZSCHIA CAPITELLATA		14.00	18.00	10.67
NITZSCHIA DENTICULA		14.00		4.67

SITE = 18

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA LATENS	14.00			4.67
GROUP MEAN				3241.71

SITE = 19

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
NODULARIA SPP	34.00			11.33
GROUP MEAN				11.33
CHRYSOPHYTA				
SYNEDRA AMPHICEPHALA	17.00	4.00	14.00	11.67
ACHNANTHES MINUTISSIMA	289.00	70.00	448.00	269.00
RHOICOSPHENIA CURVATA	34.00		28.00	20.67
PLEUROSIGMA DELICATULUM	.30	.03	.60	.31
NAVICULA CRYPTOCEPHALA	187.00	56.00	210.00	151.00
NAVICULA PELLICULOSA	918.00	119.00	196.00	411.00
NAVICULA VIRIDULA		4.00		1.33
NAVICULA SP 1	119.00	7.00		42.00
GOMPHONEMA PARVULUM			14.00	4.67
EPITHEMIA SOREX		4.00		1.33
RHOPALODIA GIBBA	1.50	.18	14.00	5.23
HANTZSCHIA AMPHIOXYS	17.00			5.67
NITZSCHIA APICULATA		4.00		1.33
NITZSCHIA CAPITELLATA		18.00		6.00
NITZSCHIA FRUSTULUM	1853.00	326.00	1092.00	1090.33
NITZSCHIA HOLSATICA		7.00	42.00	16.33

2.4.4.989

G-10-2 (Continued)

SITE = 19

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA LATENS	34.00			11.33
NITZSCHIA LINEARIS		4.00	28.00	10.67
NITZSCHIA MICROCEPHALA		4.00		1.33
NITZSCHIA SIGMA			14.00	4.67
NITZSCHIA SP 1	119.00			39.67
SURIRELLA OVATA	34.00	.03		11.34
GROUP MEAN				2116.88

2.4.4.990

G-10-2 (Continued)

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP				
CALOTHRIX SPP		27.00		9.00
GROUP MEAN			78.00	26.00
CHLOROPHYTA				35.00
CLADOPHORA SPP				
GROUP MEAN		9.00		3.00
CHRYSOPHYTA				3.00
BICOECA LACUSTRIS			78.00	26.00
CYCLOTELLA MENEGHINIANA	50.00	81.00	78.00	69.67
FRAGILARIA VAUCHERIAE			11.00	3.67
ACHNANTHES MINUTISSIMA	13.00	54.00	45.00	37.33
MASTOGLOIA SMITHII			11.00	3.67
GYROSIGMA ACUMINATUM	.10		.40	.17
NAVICULA CRYPTOCEPHALA		9.00	11.00	6.67
NAVICULA PELLICULOSA	7.00	18.00	3.00	9.33
NAVICULA SP 2		9.00		3.00
CYMBELLA SP 1		18.00		6.00
GOMPHONEMA AFFINE			11.00	3.67

2.4.4.991

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA FRUSTULUM	122.00	279.00	840.00	413.67
NITZSCHIA HOLSATICA	3.00			1.00
NITZSCHIA LATENS	3.00	18.00	22.00	14.33
NITZSCHIA MICROCEPHALA			1.00	.33
NITZSCHIA SP 1			1.00	.33
SURIRELLA OVATA	16.00	18.00	1.00	11.67
SURIRELLA OVALIS	.10	.16		.09
GROUP MEAN				610.59

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP	22.00	72.00		31.33
NODULARIA SPP		45.00		15.00
GROUP MEAN				46.33
CHLOROPHYTA				
CLADOPHORA SPP		225.00	594.00	273.00
SPIROGYRA SPP			5.00	1.67
GROUP MEAN				274.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	235.00	333.00	770.00	446.00
SYNEDRA AMPHICEPHALA	11.00			3.67
SYNEDRA PULCHELLA	22.00	243.00	110.00	125.00
SYNEDRA ULNA	11.00			3.67
ACHNANTHES MINUTISSIMA	67.00	1620.00	572.00	753.00
GYROSIGMA ACUMINATUM	11.00	.08		3.69
NAVICULA ARVENSIS			66.00	22.00
NAVICULA CRYPTOCEPHALA	22.00	45.00	88.00	51.67
NAVICULA CUSPIDATA			.40	.13
NAVICULA PELLICULOSA	22.00	45.00		22.33

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA		9.00		3.00
NAVICULA VIRIDULA		9.00	22.00	10.33
NAVICULA SP 1	11.00	18.00		9.67
CALONEIS AMPHISBAENA		.16		.05
CYMBELLA VENTRICOSA	11.00	9.00		6.67
CYMBELLA SP 1		9.00		3.00
GOMPHONEMA INTRICATUM			44.00	14.67
AMPHIPRORA ALATA		9.00		3.00
RHOPALODIA GIBBERULA		9.00		3.00
NITZSCHIA APICULATA		18.00		6.00
NITZSCHIA CAPITELLATA			22.00	7.33
NITZSCHIA FRUSTULUM	437.00	99.00	682.00	406.00
NITZSCHIA LATENS	11.00	9.00		6.67
NITZSCHIA MICROCEPHALA			44.00	14.67
SURIRELLA OVATA	45.00	153.00	242.00	146.67
SURIRELLA OVALIS	.60	9.00	2.00	3.87
GROUP MEAN				2075.75

SITE = 22

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP		90.00		30.00
GROUP MEAN				30.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	302.00	246.00	126.00	224.67
FRAGILARIA VAUCHERIAE	56.00	11.00		22.33
SYNEDRA AMPHICEPHALA	22.00		28.00	16.67
SYNEDRA PULCHELLA	56.00	34.00	14.00	34.67
SYNEDRA ULNA	11.00			3.67
ACHNANTHES MINUTISSIMA	650.00	123.00	294.00	355.67
GYROSIGMA ACUMINATUM	.20	.30	.24	.25
PLEUROSIGMA DELICATULUM		.20		.07
NAVICULA CRYPTOCEPHALA	168.00	134.00	14.00	105.33
NAVICULA PELLICULOSA	2229.00	862.00	644.00	1245.00
NAVICULA VIRIDULA	235.00	90.00	224.00	183.00
NAVICULA SP 1	34.00		14.00	16.00
NAVICULA SP 2	11.00		56.00	22.33
CALONEIS AMPHISBAENA		.20	.12	.11
AMPHORA OVALIS VAR. PEDICULUS	11.00	11.00		7.33
CYMBELLA VENTRICOSA	22.00			7.33

SITE = 22

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA INTRICATUM	616.00	146.00	210.00	324.00
GOMPHONEMA OLIVACEUM	22.00	22.00		14.67
EPITHEMIA SOREX	11.00			3.67
NITZSCHIA APICULATA		34.00		11.33
NITZSCHIA CAPITELLATA			70.00	23.33
NITZSCHIA FRUSTULUM	9677.00	2027.00	1932.00	4545.33
NITZSCHIA HOLSATICA		22.00		7.33
NITZSCHIA LATENS		11.00	56.00	22.33
NITZSCHIA LINEARIS			14.00	4.67
SURIRELLA OVATA	157.00	101.00	112.00	123.33
SURIRELLA OVALIS	1.40	1.10	14.00	5.50
GROUP MEAN				7329.92

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			476.00	158.67
CALOTHRIX SPP	2040.00	2312.00	1020.00	1790.67
GROUP MEAN				1949.33
CHLOROPHYTA				
CLADOPHORA SPP			43.00	14.33
CHLOROPHYTA I		408.00		136.00
GROUP MEAN				150.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	34.00		102.00	45.33
DIATOMA VULGARE		340.00	68.00	136.00
FRAGILARIA VAUCHERIAE	102.00	340.00	136.00	192.67
SYNEDRA ULNA	68.00	204.00	34.00	102.00
ACHNANTHES MINUTISSIMA	68.00	204.00	68.00	113.33
GYROSIGMA ACUMINATUM		68.00		22.67
NAVICULA CAPITATA	34.00	68.00		34.00
NAVICULA CRYPTOCEPHALA	1768.00	2244.00	2788.00	2266.67
NAVICULA MINIMA		68.00		22.67
NAVICULA PELLICULOSA	68.00	136.00	68.00	90.67

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SALINARUM VAR. INTERMEDIA	68.00			22.67
NAVICULA SUBHAMULATA	68.00	340.00		136.00
NAVICULA TRIPUNCTATA	476.00	1224.00	1326.00	1008.67
NAVICULA VAUCHERIAE		136.00		45.33
NAVICULA VIRIDULA	680.00	816.00	918.00	804.67
AMPHORA OVALIS VAR. PEDICULUS	2550.00	3740.00	1462.00	2584.00
CYMBELLA AFFINIS	34.00	136.00	68.00	79.33
CYMBELLA SINUATA	34.00	136.00	34.00	68.00
CYMBELLA VENTRICOSA	136.00	136.00	68.00	113.33
GOMPHONEMA INTRICATUM			68.00	22.67
GOMPHONEMA OLIVACEUM	442.00	748.00	372.00	520.67
EPITHEMIA SOREX	136.00	204.00	372.00	237.33
RHOPALODIA GIBBA	.60			.20
NITZSCHIA CHASEI	476.00	544.00	510.00	510.00
NITZSCHIA DISSIPATA	680.00	1700.00		793.33
NITZSCHIA FRUSTULUM	272.00	68.00	408.00	249.33
NITZSCHIA HULSATICA		68.00		22.67
NITZSCHIA LINEARIS	34.00			11.33
SURIRELLA OVATA	34.00	68.00	102.00	68.00
GROUP MEAN				10323.53

G-10-2 (Continued)

SITE = 25

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			1738.00	579.33
CALOTHRIX SPP	1394.00	1394.00	88.00	958.67
GROUP MEAN				1538.00
CHLOROPHYTA				
CLADOPHORA SPP	28.00	235.00		87.67
GROUP MEAN				87.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA			22.00	7.33
DIATOMA VULGARE	68.00	408.00	22.00	166.00
FRAGILARIA LEPTOSTAURON		34.00		11.33
FRAGILARIA VAUCHERIAE	340.00	170.00	110.00	206.67
SYNEDRA ULNA	34.00	34.00	22.00	30.00
COCCONEIS PEDICULUS		34.00		11.33
ACHNANTHES MINUTISSIMA	340.00	34.00	88.00	154.00
NAVICULA CRYPTOCEPHALA	4590.00	2414.00	2134.00	3046.00
NAVICULA MINIMA	68.00			22.67
NAVICULA PELLICULOSA	102.00			34.00
NAVICULA SUBHAMULATA		102.00		34.00

2.4.4.999

SITE = 25

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA	2108.00	1768.00	528.00	1468.00
NAVICULA VAUCHERIAE	34.00	34.00		22.67
NAVICULA VIRIDULA	884.00	578.00	704.00	722.00
AMPHORA OVALIS VAR. PEDICULUS	1938.00	2006.00	506.00	1483.33
CYMBELLA AFFINIS		204.00	44.00	82.67
CYMBELLA SINUATA		170.00		56.67
CYMBELLA VENTRICOSA	408.00	34.00	154.00	198.67
GOMPHONEMA INTRICATUM			22.00	7.33
GOMPHONEMA OLIVACEUM	340.00	544.00	220.00	368.00
EPITHEMIA SOREX	204.00	306.00	176.00	228.67
RHOPALODIA GIBBA			.20	.07
RHOPALODIA GIBBERULA	34.00			11.33
NITZSCHIA CAPITELLATA		34.00	22.00	18.67
NITZSCHIA CHASEI	850.00	102.00	330.00	427.33
NITZSCHIA DENTICULA		34.00		11.33
NITZSCHIA DISSIPATA	1496.00	952.00	638.00	1028.67
NITZSCHIA FRUSTULUM	204.00	170.00	88.00	154.00
NITZSCHIA HOLSATICA	34.00		66.00	33.33
NITZSCHIA PALEA		34.00		11.33
GROUP MEAN				10057.40

2.4.4.1000

G-10-2 (Continued)

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP	1462.00	68.00	1056.00	862.00
GROUP MEAN				862.00
CHLOROPHYTA				
CLADOPHORA SPP	3.30	8.00	62.00	24.43
GROUP MEAN				24.43
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		34.00	34.00	22.67
STEPHANODISCUS ASTRAEA	102.00			34.00
DIATOMA VULGARE		136.00	68.00	68.00
FRAGILARIA LEPTOSTAURON	34.00	34.00		22.67
FRAGILARIA VAUCHERIAE		170.00	204.00	124.67
SYNEDRA ULNA	102.00	1.00		34.33
ACHNANTHES MINUTISSIMA	1598.00	340.00	510.00	816.00
NAVICULA CRYPTOCEPHALA	1258.00	1054.00	1632.00	1314.67
NAVICULA PELLICULOSA	136.00	1496.00	34.00	555.33
NAVICULA TRIPUNCTATA	884.00	442.00	816.00	714.00
NAVICULA VAUCHERIAE		34.00		11.33
NAVICULA VIRIDULA	578.00	578.00	1292.00	816.00

2.4.4.1001

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SP 1			102.00	34.00
CALONEIS AMPHISBAENA	.30			.10
CALONEIS BACILLUM	34.00			11.33
AMPHORA OVALIS VAR. PEDICULUS	918.00	2040.00	816.00	1258.00
CYMBELLA AFFINIS	34.00	34.00	68.00	45.33
CYMBELLA SINUATA	170.00	68.00	136.00	124.67
CYMBELLA VENTRICOSA	238.00	238.00	136.00	204.00
GOMPHONEMA INTRICATUM			34.00	11.33
GOMPHONEMA OLIVACEUM	850.00	442.00	782.00	691.33
GOMPHONEMA VENTRICOSUM	34.00		68.00	34.00
EPITHEMIA SOREX	102.00	68.00	408.00	192.67
NITZSCHIA ACICULARIS			68.00	22.67
NITZSCHIA APICULATA	34.00			11.33
NITZSCHIA CHASEI	136.00	34.00	34.00	68.00
NITZSCHIA DISSIPATA	476.00	816.00	408.00	566.67
NITZSCHIA FRUSTULUM	2244.00	1394.00	510.00	1382.67
NITZSCHIA HULSATICA			34.00	11.33
NITZSCHIA LATENS			68.00	22.67
CYMATOPLEURA ELLIPTICA		.30		.10
SURIRELLA OVATA			34.00	11.33
GROUP MEAN				9237.20

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP	2312.00			770.67
CALOTHRIX SPP		276.00	136.00	137.33
GROUP MEAN				908.00
CHLOROPHYTA				
CLADOPHORA SPP	3.00		16.00	6.33
GROUP MEAN				6.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA			68.00	22.67
DIATOMA VULGARE	68.00	204.00	272.00	181.33
FRAGILARIA LEPTOSTAURON	34.00		204.00	79.33
FRAGILARIA PINNATA	34.00		340.00	124.67
FRAGILARIA VAUCHERIAE	272.00	340.00	204.00	272.00
SYNEDRA ULNA	34.00	136.00	204.00	124.67
COCCONEIS PEDICULUS	102.00			34.00
ACHNANTHES MINUTISSIMA	272.00	204.00	68.00	181.33
GYROSIGMA ACUMINATUM			.60	.20
PLEUROSIGMA DELICATULUM	.30			.10
NAVICULA CRYPTOCEPHALA	1360.00	2856.00	2652.00	2289.33

2.4.4.1003

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
SURIRELLA OVATA		68.00		22.67
GROUP MEAN				12546.30

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA MINIMA		272.00		90.67
NAVICULA PELLICULOSA	204.00	204.00	68.00	158.67
NAVICULA TRIPUNCTATA	272.00		1428.00	566.67
NAVICULA VIRIDULA	68.00	748.00	612.00	476.00
NAVICULA SP 4		68.00		22.67
CALONEIS BACILLUM			68.00	22.67
AMPHORA OVALIS VAR. PEDICULUS	782.00	5032.00	1020.00	2278.00
CYMBELLA AFFINIS	34.00	68.00	68.00	56.67
CYMBELLA SINUATA	238.00		136.00	124.67
CYMBELLA VENTRICOSA	68.00	340.00	340.00	249.33
GOMPHONEMA INTRICATUM		748.00		249.33
GOMPHONEMA OLIVACEUM	1088.00	816.00	1496.00	1133.33
EPITHEMIA SOREX	102.00	408.00	204.00	238.00
NITZSCHIA ACICULARIS		68.00		22.67
NITZSCHIA CAPITELLATA		204.00		68.00
NITZSCHIA CHASEI		272.00		90.67
NITZSCHIA DISSIPATA	1190.00	1836.00	2380.00	1802.00
NITZSCHIA FRUSTULUM	3876.00	272.00	340.00	1496.00
NITZSCHIA HULSATICA		68.00		22.67
NITZSCHIA LINEARIS		136.00		45.33

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			986.00	328.67
CALOTHRIX SPP	714.00	2448.00		1054.00
GROUP MEAN				1382.67
CHRYSOPHYTA				
BICOECA LACUSTRIS			408.00	136.00
CYCLOTELLA MENEGHINIANA	34.00	34.00	34.00	34.00
STEPHANODISCUS ASTRAEA		34.00		11.33
DIATOMA VULGARE			68.00	22.67
FRAGILARIA LEPTOSTAURON			68.00	22.67
FRAGILARIA PINNATA		34.00	170.00	68.00
FRAGILARIA VAUCHERIAE	136.00	102.00	102.00	113.33
SYNEDRA ULNA	34.00		204.00	79.33
ACHNANTHES MINUTISSIMA		170.00	136.00	102.00
RHOICOSPHENIA CURVATA			34.00	11.33
NAVICULA CRYPTOCEPHALA	1156.00	952.00	1467.00	1191.67
NAVICULA PELLICULOSA	544.00	102.00	34.00	226.67
NAVICULA TRIPUNCTATA		782.00	1088.00	623.33
NAVICULA VAUCHERIAE	34.00			11.33
NAVICULA VIRIDULA	272.00	680.00	952.00	634.67

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS	136.00	374.00	408.00	306.00
CYMBELLA AFFINIS	136.00	102.00	102.00	113.33
CYMBELLA SINUATA			34.00	11.33
CYMBELLA VENTRICOSA	170.00	374.00	306.00	283.33
DIDYMOSPHENIA GEMINATA			.60	.20
GOMPHONEMA OLIVACEUM	1428.00	272.00	445.00	715.00
GOMPHONEMA VENTRICOSUM	34.00			11.33
EPITHEMIA SOREX		102.00		34.00
NITZSCHIA CHASEI	34.00		34.00	22.67
NITZSCHIA DISSIPATA	1190.00	816.00	1394.00	1133.33
NITZSCHIA FRUSTULUM	136.00	578.00	306.00	340.00
NITZSCHIA HOLSATICA	68.00	102.00		56.67
NITZSCHIA SIGMOIDEA			.30	.10
CYMATOPLEURA SOLEA		.60		.20
SURIRELLA OVATA	34.00			11.33
GROUP MEAN				6327.17

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALUTHRIX SPP	2788.00	1972.00	8976.00	4578.67
GROUP MEAN				4578.67
CHRYSOPHYTA				
BICOECA LACUSTRIS	680.00	1122.00	204.00	668.67
STEPHANODISCUS ASTRAEA	102.00			34.00
DIATOMA VULGARE	102.00		34.00	45.33
FRAGILARIA LEPTOSTAURON	68.00	68.00	34.00	56.67
FRAGILARIA PINNATA		68.00	68.00	45.33
FRAGILARIA VAUCHERIAE	306.00	102.00	34.00	147.33
SYNEDRA AMPHICEPHALA	34.00			11.33
SYNEDRA ULNA	4.20	3.00		2.40
ACHNANTHES MINUTISSIMA	1088.00	34.00	102.00	408.00
GYROSIGMA ACUMINATUM	.30			.10
NAVICULA CRYPTOCEPHALA	1530.00	476.00	1360.00	1122.00
NAVICULA PELLICULOSA	476.00	102.00	374.00	317.33
NAVICULA TRIPUNCTATA	544.00	68.00	272.00	294.67
NAVICULA VIRIDULA	476.00	34.00	306.00	272.00
AMPHORA OVALIS VAR. PEDICULJS	816.00	170.00	476.00	487.33
CYMBELLA AFFINIS	340.00	68.00		136.00

2.4.4.1008

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA PROSTRATA			34.00	11.33
CYMBELLA SINUATA	272.00	102.00	170.00	181.33
CYMBELLA VENTRICOSA	374.00		170.00	181.33
GOMPHONEMA OLIVACEUM	1564.00	578.00	204.00	782.00
GOMPHONEMA VENTRICOSUM	136.00			45.33
EPITHEMIA SOREX	136.00		136.00	90.67
NITZSCHIA CAPITELLATA			34.00	11.33
NITZSCHIA DISSIPATA	1462.00	442.00	544.00	816.00
NITZSCHIA FRUSTULUM	1190.00	102.00	5644.00	2312.00
NITZSCHIA HOLSATICA	136.00	136.00		90.67
CYMATOPLEURA SOLEA	.30			.10
SURIRELLA OVATA	34.00			11.33
GROUP MEAN				8581.93

2.4.4.1009

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP		1802.00	3196.00	1666.00
CALOTHRIX SPP	1012.00		68.00	360.00
GROUP MEAN				2026.00
CHLOROPHYTA				
CLADOPHORA SPP	22.00		.60	7.53
GROUP MEAN				7.53
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		34.00		11.33
DIATOMA VULGARE	22.00	34.00		18.67
FRAGILARIA LEPTOSTAURON	22.00	68.00		30.00
FRAGILARIA PINNATA		34.00		11.33
FRAGILARIA VAUCHERIAE	44.00	136.00	68.00	82.67
SYNEDRA AMPHICEPHALA		34.00		11.33
SYNEDRA ULNA	66.00	34.00	136.00	78.67
CUCCONEIS PLACENTULA		34.00		11.33
ACHNANTHES LANCEOLATA		34.00		11.33
ACHNANTHES MINUTISSIMA	594.00	544.00	170.00	436.00
NAVICULA CRYPTOCEPHALA	792.00	2006.00	1224.00	1340.67

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA PELLICULOSA	110.00	34.00	136.00	93.33
NAVICULA TRIPUNCTATA	462.00	918.00	238.00	539.33
NAVICULA VIRIDULA	374.00	646.00	408.00	476.00
NAVICULA SP 2			34.00	11.33
AMPHORA OVALIS VAR. PEDICULUS	1826.00	1428.00	1326.00	1526.67
CYMBELLA AFFINIS	44.00	34.00		26.00
CYMBELLA SINUATA	88.00	136.00	272.00	165.33
CYMBELLA VENTRICOSA	220.00	238.00	68.00	175.33
GOMPHONEMA INTRICATUM	220.00		204.00	141.33
GOMPHONEMA OLIVACEUM	550.00	714.00	306.00	523.33
GOMPHONEMA SP 1		34.00		11.33
EPITHEMIA SOREX	66.00	918.00	204.00	396.00
NITZSCHIA ACICULARIS		34.00		11.33
NITZSCHIA CHASEI		1258.00	68.00	442.00
NITZSCHIA DISSIPATA	440.00	918.00	646.00	668.00
NITZSCHIA FRUSTULUM	990.00	1394.00	442.00	942.00
NITZSCHIA HOLSATICA	22.00	68.00	34.00	41.33
SURIRELLA OVATA	22.00			7.33
GROUP MEAN				8240.67

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			5950.00	1983.33
CALOTHRIX SPP	1428.00			476.00
GROUP MEAN				2459.33
CHLOROPHYTA				
CLADOPHORA SPP	72.00			24.00
GROUP MEAN				24.00
CHRYSOPHYTA				
STEPHANODISCUS ASTRAEA	68.00	34.00		34.00
DIATOMA VULGARE	68.00	272.00	102.00	147.33
FRAGILARIA CROTONENSIS			102.00	34.00
FRAGILARIA LEPTOSTAURON	612.00	204.00	34.00	283.33
FRAGILARIA PINNATA		68.00		22.67
FRAGILARIA VAUCHERIAE	136.00	170.00	136.00	147.33
SYNEDRA PULCHELLA		34.00		11.33
SYNEDRA ULNA	68.00	136.00		68.00
ACHNANTHES LANCEOLATA			34.00	11.33
ACHNANTHES MINUTISSIMA	2584.00	646.00	782.00	1337.33
NAVICULA CRYPTOCEPHALA	4012.00	1292.00	578.00	1960.67

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA MINIMA		34.00		11.33
NAVICULA PELLICULOSA	340.00	34.00	204.00	192.67
NAVICULA SALINARUM VAR. INTERMEDIA		34.00		11.33
NAVICULA SUBHAMULATA	68.00			22.67
NAVICULA TRIPUNCTATA	2380.00	612.00	680.00	1224.00
NAVICULA VAUCHERIAE			34.00	11.33
NAVICULA VIRIDULA	1156.00	340.00	782.00	759.33
CALONEIS AMPHISBAENA			.30	.10
AMPHORA OVALIS VAR. PEDICULUS	4148.00	1326.00	3944.00	3139.33
CYMBELLA AFFINIS	340.00	68.00	68.00	158.67
CYMBELLA PROSTRATA			68.00	22.67
CYMBELLA SINUATA		68.00	170.00	79.33
CYMBELLA VENTRICOSA	884.00	204.00	272.00	453.33
GOMPHONEMA OLIVACEUM	1632.00	476.00	1734.00	1280.67
GOMPHONEMA PARVULUM		34.00		11.33
GOMPHONEMA VENTRICOSUM	272.00			90.67
EPITHEMIA SOREX	340.00	170.00	136.00	215.33
NITZSCHIA ACICULARIS		34.00		11.33
NITZSCHIA CAPITELLATA		68.00		22.67
NITZSCHIA CHASEI	408.00	102.00	102.00	204.00

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DISSIPATA	4556.00	1156.00	1020.00	2244.00
NITZSCHIA FRUSTULUM	2380.00	782.00	680.00	1280.67
NITZSCHIA HOLSATICA	204.00		170.00	124.67
CYMATOPLEURA SOLEA	1.20	.60	.60	.80
SURIRELLA ANGUSTATA	68.00		34.00	34.00
SURIRELLA OVATA	68.00	34.00	34.00	45.33
GROUP MEAN				15708.90

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			630.00	210.00
OSCILLATORIA SPP		90.00		30.00
CALOTHRIX SPP	682.00	540.00	270.00	497.33
GROUP MEAN				737.33
CHLOROPHYTA				
CLADOPHORA SPP	44.00	260.00	219.00	174.33
GROUP MEAN				174.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		90.00	45.00	45.00
DIATOMA VULGARE	352.00	540.00	315.00	402.33
FRAGILARIA LEPTOSTAURON	22.00	810.00		277.33
FRAGILARIA VAUCHERIAE	66.00	270.00	135.00	157.00
SYNEDRA ULNA	2.60	14.00	675.00	230.53
COCCONEIS PEDICULUS	22.00		45.00	22.33
COCCONEIS PLACENTULA	22.00		45.00	22.33
ACHNANTHES LANCEOLATA			45.00	15.00
ACHNANTHES MINUTISSIMA	44.00	360.00	225.00	209.67
RHOICOSPHENIA CURVATA			90.00	30.00

2.4.4.1015

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA FRUSTULUM	286.00	1080.00	360.00	575.33
NITZSCHIA HOLSATICA			90.00	30.00
CYMATOPLEURA SOLEA		.60	.70	.43
GROUP MEAN				8645.17

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
STAURONEIS SMITHII	22.00			7.33
NAVICULA CRYPTOCEPHALA	1342.00	720.00	1800.00	1287.33
NAVICULA MINIMA			45.00	15.00
NAVICULA PELLICULOSA	44.00		45.00	29.67
NAVICULA SALINARUM VAR. INTERMEDIA			90.00	30.00
NAVICULA TRIPUNCTATA	770.00	540.00	1080.00	796.67
NAVICULA VIRIDULA	264.00	90.00	45.00	133.00
CALONEIS AMPHISBAENA		.60		.20
AMPHORA OVALIS VAR. PEDICULUS	484.00	2700.00	1215.00	1466.33
CYMBELLA AFFINIS	66.00	90.00	45.00	67.00
CYMBELLA SINUATA	22.00		45.00	22.33
CYMBELLA VENTRICOSA	176.00	270.00	405.00	283.67
GOMPHONEMA INTRICATUM	308.00	90.00		132.67
GOMPHONEMA OLIVACEUM	242.00	1080.00	1440.00	920.67
GOMPHONEMA VENTRICOSUM		90.00		30.00
EPITHEMIA SOREX	352.00	180.00	315.00	282.33
NITZSCHIA ACICULARIS			45.00	15.00
NITZSCHIA CHASEI	220.00	90.00	225.00	178.33
NITZSCHIA DENTICULA			45.00	15.00
NITZSCHIA DISSIPATA	946.00	1170.00	630.00	915.33

RBOSP PROGRESS REPORT

APPENDIX G-10-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-10-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
1-A	0.2065	0.0287
1-B	0.1934	0.0280
1-C	0.0617	0.0185
2-A	0.0366	0.0083
2-B	0.0772	0.0086
2-C	0.0461	0.0079
3-A	0.1462	0.0153
3-B	0.1224	0.0171
3-C	0.1798	0.0200
4-A	0.1056	0.0169
4-B	0.0899	0.0123
4-C	0.0662	0.0114
5-A	0.3645	0.0737
5-B	0.3773	0.0482
5-C	0.1679	0.0258
6-A	0.0575	0.0065
6-B	0.0936	0.0092
6-C	0.0445	0.0052
7-A	0.0584	0.0065
7-B	0.0780	0.0097
7-C	0.4558	0.0284
8-A	0.1131	0.0137
8-B	0.0467	0.0087
8-C	0.1778	0.0184
9-A	0.1223	0.0215
9-B	0.2354	0.0255
9-C	0.1222	0.0177
13-A	0.0968	0.0137
13-B	0.1924	0.0166
13-C	0.0890	0.0087
14-A	0.2349	0.0368
14-B	0.1623	0.0268
14-C	0.3205	0.0431
15-A	0.0670	0.0123
15-B	0.1138	0.0223
15-C	0.1311	0.0228
17-A	0.3961	0.0995

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

APPENDIX G-10-3 (Continued)

Station Replicate	Dry Weight (g)	Organic Weight (g)
18-A	0.2134	0.0225
18-B	0.1878	0.0239
18-C	0.1488	0.0235
19-A	0.3131	0.0401
19-B	0.1575	0.0383
19-C	0.1966	0.0507
20-A	0.6238	0.1006
20-B	1.0102	0.1230
20-C	0.8928	0.1172
21-A	2.6933	0.2580
21-B	1.3155	0.1228
21-C	4.3836	0.5933
22-A	1.4350	0.1924
22-B	1.0990	0.1240
22-C	1.4928	0.2529
23-A	13.2335	0.8084
23-B	29.9839	0.7757
23-C	20.9953	0.6422
25-A	2.7622	0.2517
25-B	4.3328	0.3827
25-C	5.7789	0.4423
26-A	5.9849	0.1763
26-B	48.4915	1.0316
26-C	42.4984	0.9446
27-A	43.5851	0.9750
27-B	14.8990	0.6682
27-C	53.9622	1.2883
28-A	2.0088	0.1906
28-B	0.8445	0.1080
28-C	3.3381	0.3790
29-A	0.6220	0.0691
29-B	1.0966	0.1550
29-C	1.1393	0.1839
31-A	3.8080	0.3255
31-B	7.1529	0.4238
31-C	1.4832	0.1563
32-A	7.3604	0.1908
32-B	29.9953	0.5258
32-C	44.1785	0.6774
35-A	1.4323	0.1402
35-B	1.3926	0.1178
35-C	4.6121	0.2087

RBOSP PROGRESS REPORT

APPENDIX G-10-4

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-10-4

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.[1]
(Data are expressed as mg/cm^2.)

Station	Replicate A	Replicate B	Replicate C
1	.0006	.0009	.0028
2	.0007	.0008	.0003
3	.0010	.0005	.0006
4	.0005	.0006	.0006
5	.0004	.0012	.0008
6	.0003	.0001	.0002
7	.0009	.0006	.0010
8	.0006	.0004	.0007
9	.0021	.0010	.0009
13	.0051	.0010	.0002
14	.0013	.0007	.0012
15	.0012	.0025	.0006
17	.0017	--	--
18	.0011	.0011	.0016
19	.0008	.0010	.0016
20	.0010	.0014	.0016
21	.0058	.0058	.0061
22	.0045	.0019	.0045
23	.0105	.0064	.0101
25	.0081	.0120	.0117
26	.0099	.0067	.0236
27	.0064	.0105	<.0001
28	.0154	.0043	.0047
29	.0044	.0092	.0015
31	.0050	.0147	.0129
32	.0086	.0095	.0010
35	.0078	.0007	.0061

[1]Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling

[2]Due to lack of substrates, only 1 replicate was taken at Station 17.

RBOSP PROGRESS REPORT

APPENDIX G-10-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-10-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976

CYANOPHYTA

Anabaena spp.
Lyngbya spp.

CHLOROPHYTA

Cladophora spp.
Spirogyra spp.

CHRYSOPHYTA

Bicoeca lacustris
Cyclotella meneghiniana
Diatoma vulgare
Fragilaria leptostauron
Fragilaria construens
Fragilaria crotonensis
Fragilaria pinnata
Fragilaria vaucheriae
Synedra amphicephala
Synedra pulchella
Synedra ulna
Cocconeis pediculus
Cocconeis placentula
Achnanthes hauckiana
Achnanthes lanceolata
Achnanthes minutissima
Gyrosigma acuminatum
Pleusigma delicatulum
Navicula cryptocephala
Navicula cuspidata
Navicula gregaria
Navicula pelliculosa
Navicula salinarum var. *intemedia*
Navicula subhamulata
Navicula tripunctata
Navicula vaucheriae
Navicula viridula
Navicula sp. 2
Caloneis bacillum
Amphora ovalis var. *pediculus*

Cymbella affinis
Cymbella sinuata
Cymbella ventricosa
Cymbella sp. 1
Gomphonema affine
Gomphonema intricatum
Gomphonema olivaceum
Amphiprora alata
Epithemia sorex
Rhopalodia gibba
Rhopalodia gibberula
Nitzschia capitellata
Nitzschia chasei
Nitzschia denticula
Nitzschia dissipata
Nitzschia frustulum
Nitzschia holsatica
Nitzschia latens
Nitzschia linearis
Nitzschia microcephala
Nitzschia palea
Nitzschia sigma
Cymatopleura solea
Surirella ovata
Surirella ovalis

RBOSP ... REPORT

APPENDIX G-10-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-10-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.

SITE = 80

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP		44.00		22.00
GROUP MEAN				22.00
CHLOROPHYTA				
CLADOPHORA SPP	2.10	2.50		2.30
GROUP MEAN				2.30
CHRYSOPHYTA				
BICOECA LACUSTRIS	33.00			16.50
CYCLOTELLA MENEGHINIANA	66.00	275.00		170.50
SYNEDRA AMPHICEPHALA		11.00		5.50
ACHNANTHES MINUTISSIMA	143.00	352.00		247.50
GYROSIGMA ACUMINATUM	11.00	.10		5.55
NAVICULA CRYPTOCEPHALA	33.00	55.00		44.00
NAVICULA PELLICULOSA	286.00	44.00		165.00
NAVICULA SUBHAMULATA		11.00		5.50
NAVICULA TRIPUNCTATA		11.00		5.50
AMPHORA OVALIS VAR. PEDICULUS	44.00	11.00		27.50
GOMPHONEMA AFFINE		11.00		5.50
GOMPHONEMA OLIVACEUM	22.00	22.00		22.00

SITE = 81

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
ANABAENA SPP		18.00		6.00
GROUP MEAN				6.00
CHLOROPHYTA				
CLADOPHORA SPP		59.00		19.67
SPIROGYRA SPP		5.00		1.67
GROUP MEAN				21.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	252.00	180.00	45.00	159.00
FRAGILARIA LEPTOSTAURON			18.00	6.00
FRAGILARIA VAUCHERIAE	54.00		954.00	336.00
SYNEDRA AMPHICEPHALA	36.00	81.00	432.00	183.00
SYNEDRA PULCHELLA	72.00	18.00	81.00	57.00
SYNEDRA ULNA	9.00			3.00
ACHNANTHES HAUCKIANA		9.00		3.00
ACHNANTHES LANCEOLATA		9.00		3.00
ACHNANTHES MINUTISSIMA	1467.00	900.00	108.00	825.00
GYROSIGMA ACUMINATUM	.08	.20		.09
PLEUROSIGMA DELICATULUM			.08	.03

G-10-6 (Continued)

SITE = 80

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DISSIPATA		11.00		5.50
NITZSCHIA FRUSTULUM	297.00	506.00		401.50
NITZSCHIA HULSATICA		11.00		5.50
NITZSCHIA MICROCEPHALA		11.00		5.50
SURIRELLA OVATA		66.00		33.00
SURIRELLA OVALIS	.10	11.00		5.55
GROUP MEAN				1177.10

SITE = 81

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA CRYPTOCEPHALA	315.00	90.00	81.00	162.00
NAVICULA CUSPIDATA	.08			.03
NAVICULA GREGARIA	45.00	18.00		21.00
NAVICULA PELLICULOSA	27.00	36.00	18.00	27.00
NAVICULA TRIPUNCTATA	27.00			9.00
NAVICULA VAUCHERIAE		9.00		3.00
NAVICULA SP 2	9.00			3.00
CALONEIS BACILLUM	9.00			3.00
AMPHORA OVALIS VAR. PEDICULUS	27.00		9.00	12.00
CYMBELLA SINUATA	9.00		54.00	21.00
CYMBELLA SP 1	9.00	27.00		12.00
GOMPHONEMA AFFINE		9.00		3.00
GOMPHONEMA OLIVACEUM	18.00			6.00
EPITHEMIA SOREX		9.00		3.00
NITZSCHIA CAPITELLATA	45.00			15.00
NITZSCHIA CHASEI	18.00			6.00
NITZSCHIA DISSIPATA	18.00			6.00
NITZSCHIA FRUSTULUM	1728.00	684.00	135.00	849.00
NITZSCHIA HOLSATICA	54.00	27.00		27.00
NITZSCHIA LATENS		9.00		3.00

SITE = 81

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA LINEARIS	9.00			3.00
NITZSCHIA MICROCEPHALA	36.00			12.00
SURIRELLA OVATA	450.00	108.00		186.00
SURIRELLA OVALIS	54.00	18.00	.72	24.24
GROUP MEAN				2991.39

SITE = 83

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP	36.00			12.00
GROUP MEAN				12.00
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE	18.00		6.00	8.00
SYNEDRA AMPHICEPHALA	18.00			6.00
SYNEDRA ULNA	18.00	1.00	6.00	8.33
COCCONEIS PEDICULUS	1782.00	930.00	1193.00	1301.67
COCCONEIS PLACENTULA	36.00			12.00
ACHNANTHES MINUTISSIMA	18.00	6.00	6.00	10.00
NAVICULA CRYPTOCEPHALA	396.00	157.00	112.00	221.67
NAVICULA PELLICULOSA	18.00			6.00
NAVICULA SALINARUM VAR. INTERMEDIA		6.00		2.00
NAVICULA TRIPUNCTATA	144.00	28.00	17.00	63.00
NAVICULA VIRIDULA	234.00	56.00	39.00	109.67
AMPHORA OVALIS VAR. PEDICULUS	72.00	34.00	34.00	46.67
CYMBELLA AFFINIS	18.00			6.00
CYMBELLA SINUATA	144.00	11.00	50.00	68.33
CYMBELLA VENTRICOSA	126.00	34.00	45.00	68.33
GOMPHONEMA OLIVACEUM	36.00	22.00	17.00	25.00

SITE = 83

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DENTICULA	36.00			12.00
NITZSCHIA DISSIPATA	198.00	45.00	34.00	92.33
NITZSCHIA FRUSTULUM		6.00	11.00	5.67
NITZSCHIA LINEARIS		.20		.07
GROUP MEAN				2072.73

SITE = 87

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP	4.50	32.00	9.00	15.17
GROUP MEAN				15.17
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	15.00	22.00		12.33
DIATOMA VULGARE	375.00	99.00	124.00	199.33
FRAGILARIA CONSTRUENS	300.00			100.00
FRAGILARIA CROTONENSIS	45.00			15.00
FRAGILARIA LEPTOSTAURON	60.00		140.00	66.67
FRAGILARIA PINNATA		99.00		33.00
FRAGILARIA VAUCHERIAE		33.00		11.00
SYNEDRA AMPHICEPHALA		11.00		3.67
SYNEDRA ULNA	15.00		4.00	6.33
COCCONEIS PEDICULUS	285.00	44.00	46.00	125.00
COCCONEIS PLACENTULA	1410.00	341.00	418.00	723.00
ACHNANTHES LANCEOLATA	15.00	55.00	62.00	44.00
ACHNANTHES MINUTISSIMA	285.00	110.00	310.00	235.00
GYROSIGMA ACUMINATUM	.10			.03
NAVICULA CRYPTOCEPHALA	330.00	1.00	93.00	141.33
NAVICULA TRIPUNCTATA	405.00	143.00	202.00	250.00

SITE = 87

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA VIRIDULA	240.00	44.00	108.00	130.67
CALONEIS BACILLUM			16.00	5.33
AMPHORA OVALIS VAR. PEDICULUS	165.00	77.00	140.00	127.33
CYMBELLA AFFINIS	15.00		46.00	20.33
CYMBELLA SINUATA	75.00	11.00	16.00	34.00
CYMBELLA VENTRICOSA	90.00	44.00	16.00	50.00
GOMPHONEMA INTRICATUM	615.00	121.00	140.00	292.00
GOMPHONEMA OLIVACEUM	525.00	33.00	124.00	227.33
AMPHIPRORA ALATA	15.00			5.00
EPITHEMIA SOREX	30.00	11.00		13.67
RHOPALODIA GIBBA	.10			.03
RHOPALODIA GIBBERULA	15.00			5.00
NITZSCHIA CAPITELLATA	30.00	11.00	16.00	19.00
NITZSCHIA CHASEI			16.00	5.33
NITZSCHIA DISSIPATA	390.00	55.00	232.00	225.67
NITZSCHIA FRUSTULUM	105.00		16.00	40.33
NITZSCHIA HOLSATICA			31.00	10.33
NITZSCHIA LINEARIS		.10		.03
NITZSCHIA PALEA		11.00		3.67
NITZSCHIA SIGMA	30.00	.10		10.03

SITE = 87

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMATOPLEURA SOLEA	.50			.17
SURIRELLA OVATA	30.00	11.00		13.67
SURIRELLA OVALIS		.10		.03
GROUP MEAN				3204.67

SITE = 89

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP	217.00	4.00	14.00	78.33
GROUP MEAN				78.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		11.00	6.00	5.67
DIATOMA VULGARE	16.00	22.00	14.00	17.33
FRAGILARIA LEPTOSTAURON	16.00			5.33
FRAGILARIA VAUCHERIAE	77.00	39.00	3.00	39.67
SYNEDRA PULCHELLA			3.00	1.00
SYNEDRA ULNA	16.00	28.00	11.00	18.33
COCCONEIS PEDICULUS	46.00	11.00		19.00
COCCONEIS PLACENTULA	1472.00	235.00	290.00	665.67
ACHNANTHES LANCEOLATA		6.00		2.00
ACHNANTHES MINUTISSIMA	372.00	67.00	11.00	150.00
NAVICULA CRYPTOCEPHALA	202.00	123.00	39.00	121.33
NAVICULA PELLICULOSA			3.00	1.00
NAVICULA TRIPUNCTATA	62.00	22.00	31.00	38.33
NAVICULA VIRIDULA	31.00	28.00	20.00	26.33
AMPHORA OVALIS VAR. PEDICULUS	217.00	39.00	37.00	97.67
CYMBELLA AFFINIS		22.00	8.00	10.00

2.4.4.1037

G-10-6 (Continued)

SITE = 89

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA	124.00	11.00	25.00	53.33
CYMBELLA VENTRICOSA	93.00	22.00	6.00	40.33
GOMPHONEMA INTRICATUM	93.00	34.00	11.00	46.00
GOMPHONEMA OLIVACEUM		62.00	11.00	24.33
NITZSCHIA CHASEI	16.00			5.33
NITZSCHIA DISSIPATA	77.00	50.00		42.33
NITZSCHIA FRUSTULUM	16.00	6.00		7.33
NITZSCHIA HOLSATICA		6.00	3.00	3.00
SURIRELLA OVATA	16.00	11.00		9.00
ROUP MEAN				1449.67

2.4.4.1038

APPENDIX G-10-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

2.4.4.1039

APPENDIX G-10-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.5310	0.0496
20-B	0.3932	0.0560
21-A	0.4109	0.0517
21-B	0.2062	0.0469
21-C	0.4249	0.0378
23-A	0.0520	0.0157
23-B	0.0946	0.0314
23-C	0.0338	0.0082
27-A	0.3147	0.0220
27-B	0.1793	0.0218
27-C	0.1792	0.0267
29-A	0.0567	0.0208
29-B	0.1394	0.0438
29-C	0.0505	0.0139

APPENDIX G-10-8

CHLOROPHYL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES
DURING RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-10-8

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.[1]
(Data are expressed as mg/cm^2.)

Station	A	B	C
20	.0048	.0040	--
21	.0016	.0024	.0024
23	.0006	.0084	.0007
27	.0026	.0039	.0039
29	.0006	.0010	.0006

[1]Due to lack of substrates, only 2 replicates were taken.

2.4.5 Benthos

Appendix G-12-1 presents a partial listing of the benthic taxa observed during the May - June 1976 sampling (laboratory analyses of Chironomidae and Oligochaeta from the period were not completed in time for inclusion in this report). Quantitative benthos data for the May - June 1976 sampling (excluding Chironomidae and Oligochaeta) are presented in Appendix G-12-2.

During the May - June 1976 period, the most abundant benthic taxa at the headwater stations included Oligochaeta, Chironomidae, Baetidae, Hydroptilidae, and Nemoura sp. At the tract stations, the most abundant taxa included Chironomidae, Simuliidae, Oligochaeta, and Ceratopogonidae. In Yellow Creek, the most abundant taxa were Oligochaeta, Chironomidae, Simuliidae, and Simulium sp. The most abundant taxa in the White River were Chironomidae, Simuliidae, Baetidae, Oligochaeta, and Ephemerella sp.

2.4.5 - Benthos Data

RBOSP PROGRESS REPORT

APPENDIX G-11-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1976

APPENDIX G-11-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1976

Platyhelminthes
  Turbellaria
    Tricladida
      Planariidae

Nematoda

Mollusca
  Gastropoda
    Basommatophora
      Physidae
        Physa Draparnaud
      Lymnaeidae
        Lymnaea Lamark

Annelida
  Hirudinea
    Rhynchobdellida
      Glossiphoniidae
        Helobdella stagnalis (Linnaeus)
  Oligochaeta

Arthropoda
  Arachnoida
    Acari
  Crustacea
    Amphipoda
      Talitridae
        Hyallela azteca (Saussure)
  Insecta
    Collembola
    Ephemeroptera
    Heptageniidae
      Heptagenia Walsh
      Rhithrogena Eaton
    Baetidae
      Baetis Leach
    Ephemerellidae
      Ephemerella Walsh
    Tricorythidae
      Tricorythodes Ulmer
    Caenidae
      Caenis Stephens
    Leptophlebiidae
  Odonata
    Coenagrionidae

- *Coenagrion* (Fabricius)
- Gomphidae
  - *Ophiogomphus severus* Hagen
- Plecoptera
- Perlodidae
  - *Isoperla* Banks
  - *Isogenus* Newman
  - *Isogenoides* Klapalek
- Coleoptera
- Haliplidae
  - *Peltodytes* Regimbart
- Dytiscidae
  - *Deronectes* Sharp
- Hydrophilidae
- Elmidae
  - *Dubiraphia* Sanderson
  - *Microcylloepus* Hinton
  - *Optioservus* Sanderson
  - *Zaitzevia* Champion
- Dryopidae
  - *Helichus* Erichson
- Trichoptera
- Hydropsychidae
  - *Hydropsyche* Pictet
- Hydroptilidae
  - *Mayatrichia* Mosely
- Limnephilidae
  - *Grammotaulius* Kolenati
  - *Hesperophylax* Banks
- Leptoceridae
  - *Oecetis* McLachlan
- Lepidoptera
- Pyralidae
- Diptera
- Tipulidae
  - *Ormosia* Rondani
  - *Dicranota* Zetterstedt
  - *Limnophila* Macquart
  - *Holorusia* Loew
- Ceratopogonidae
- Chironomidae
- Simuliidae
  - *Simulium* Latreille
- Stratiomyiidae
  - *Euparyphus* Gerstaecker
- Tabanidae
  - *Chrysops* Meigen
- Rhagionidae
  - *Atherix variegata* Walker

Empididae
Anthomyiidae
  Limnophora aequifrons Stein

RBOSP PROGRESS REPORT

APPENDIX G-11-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES APRIL 1976

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, APRIL 1976
(Site = Station; Rep = Replicate)[1]

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		36	18	18.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	163	308	127	199.33
BAETIS SP				
LARVAE	36	54	253	114.33
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00
TRICHOPTERA				
LIMNEPHILIDAE				
HESPEROPHYLAX SP				
LARVAE	36	36		24.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE	36	127	18	60.33
HOLORUSIA SP				
LARVAE	235	145	91	157.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	18		12.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			18	6.00

[1] Stations 1, 3, 10 - 12, 16 were dry or inaccessible at the time of sampling.

2.4.5.847

RBOSP PROGRESS REPORT

G-11-2 (Continued)

SITE = 02 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
PSEUDODIAMESA PERTINAX				
LARVAE	18	18		12.00
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		18		6.00

SITE = 03 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			18	6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		91		30.33
BAETIS SP				
LARVAE		18		6.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE		18		6.00
HOLORUSIA SP				
LARVAE	36	181	36	84.33
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
UNIDENTIFIED				
PUPAE	18	36		18.00
DIAMESINAE				
DIAMESA SP				
LARVAE	742	1086	2244	1357.33

2.4.5.849

SITE = 03 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	18	163	66.33
EUKIEFFERIELLA SP				
LARVAE	145	163	272	193.33
ORTHOCLADIUS SP				
LARVAE		18	163	60.33
PARAPHAENOCLADIUS SP				
LARVAE			36	12.00
ORTHOCLADIINAE SP. 6				
LARVAE	453	507	489	483.00

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	36			12.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		54	18	24.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	18			6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	7475	5177	833	4495.00
BAETIS SP				
LARVAE	434	54	2082	856.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	36	36	18	30.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE	18			6.00
HOLORUSIA SP				
LARVAE	181	163	54	132.67

2.4.5.851

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	91	109	127	109.00
TANYPODINAE				
PSECTROTANYPUS SP				
LARVAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE		72		24.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	36	18	24.00
CORYNONEURA SP				
LARVAE	36	36		24.00
EUKIEFFERIELLA SP				
LARVAE	235	217	109	187.00
ORTHOCLADIUS SP				
LARVAE	18			6.00
PARAPHAENOCLADIUS SP				
LARVAE	72	72		48.00

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE	507	2806	217	1176.67
THIENEMANNIELLA SP				
LARVAE	18			6.00
CHIRONOMINAE				
PARATENDIPES SP				
LARVAE	36			12.00
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	18			6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	398	109	199	235.33
SIMULIUM SP				
PUPAE	18		18	12.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	91	36		42.33

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	434	398	959	597.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
PHYSIDAE				
PHYSA SP			18	6.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS			18	6.00
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
ILYODRILUS TEMPLETONI			54	18.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL	18		36	18.00
RHYACODRILINAE SP	72	326	199	199.00
TUBIFEX TUBIFEX		18		6.00
IMMATURES WITH CAP. CHAETAE SP	54	54	235	114.33
IMMATURES W/O CAP. CHAETAE SP	18	109	145	90.67

2.4.5.854

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
ARACHNOIDEA				
ACARI		18		6.00
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA				
-------- - ----	72	163	36	90.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE		36	54	30.00
BAETIS SP				
------ --				
LARVAE		72		24.00
CAENIDAE				
CAENIS SP				
------ --				
LARVAE		18		6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				

LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
---------- --				
ADULTS			36	12.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				

LARVAE	36	18	54	36.00
LIMNEPHILIDAE				
GRAMMOTAULIJS SP				
---------- --				
LARVAE			18	6.00

2.4.5.855

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	36	54	72	54.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	181	217	253	217.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		72	72	48.00
TANYPODINAE				
PENTANEURINI SP				
LARVAE			54	18.00
THIENEMANNIMYIA GROUP SP				
LARVAE		72		24.00
XENOPELOPIA SP				
LARVAE	18			6.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE	18			6.00
DIAMESA SP				
LARVAE	380	1231	742	784.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		72		24.00

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
DIPLOCLADIUS SP				
LARVAE	18		18	12.00
EUKIEFFERIELLA SP				
LARVAE	72	145	72	96.33
ORTHOCLADIUS SP				
LARVAE	217	652	923	597.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	18			6.00
PARAKIEFFERIELLA SP				
LARVAE			18	6.00
PARAPHAENOCLADIUS SP				
LARVAE	54	54	308	138.67
PARAMETRIOCNEMUS SP				
LARVAE	18	217	181	138.67
THIENEMANNIELLA SP				
LARVAE			18	6.00
CHIRONOMINAE				
PARATENDIPES SP				
LARVAE			18	6.00

2.4.5.857

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	36		72	36.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	253	652	561	488.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			36	12.00

2.4.5.858

SITE = 07 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54	18	18	30.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	109	36	18	54.33
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	18			6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	109	18		42.33
BAETIS SP				
LARVAE	18			6.00
COLEOPTERA				
HYDROPHILIDAE				
UNIDENTIFIED				
ADULTS		36		12.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE			18	6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		36	54	30.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	18		12.00

2.4.5.859

SITE = 07 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
LARSIA SP				
LARVAE	18			6.00
THIENEMANNIMYIA GROUP SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE			36	12.00
PARAMETRIOCNEMUS SP				
LARVAE	36	36	109	60.33
CHIRONOMINAE				
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE			18	6.00
POLYPEDILUM FALLAX GROUP				
LARVAE	18			6.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		91	36	42.33

2.4.5.860

SITE = 08 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED				
----------			18	6.00
NEMATODA		18	18	12.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE		18		6.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
-------- --				
LARVAE		18	72	30.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
--------- --				
LARVAE		36	36	24.00
HOLORUSIA SP				
--------- --				
LARVAE	145	127	145	139.00
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE	18	18		12.00
DIAMESINAE				
DIAMESA SP				
------- --				
LARVAE	18			6.00
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
---------- --				
LARVAE	18			6.00

2.4.5.861

SITE = 08 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE	127	199	163	163.00
THIENEMANNIELLA SP				
LARVAE			18	6.00

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18	18	12.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED				
----------		18		6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE		109	72	60.33
BAETIS SP				
------ --				
LARVAE			72	24.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE			18	6.00
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
------- --				
LARVAE	91	36	18	48.33
PSEUDODIAMESA PERTINAX				
------------ --------				
LARVAE	18			6.00
ORTHOCLADIINAE				
UNIDENTIFIED				

LARVAE	36		18	18.00
CORYNONEURA SP				
---------- --				
LARVAE			18	6.00

2.4.5.863

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		18		6.00
GYMNOMETRIOCNEMUS SP				
LARVAE		18		6.00
ORTHOCLADIUS SP				
LARVAE	72	18	109	66.33
PARAPHAENOCLADIUS SP				
LARVAE	18			6.00
PARAMETRIOCNEMUS SP				
LARVAE		36		12.00
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE		18		6.00

SITE = 13 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18	36	18	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	18			6.00
NAIDIDAE				
NAIS SP			18	6.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED		18		6.00
HROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	145	199		114.67
BAETIS SP				
LARVAE	18	18	36	24.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	36	18	18	24.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE	18			6.00

2.4.5.865

SITE = 13 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	72		36	36.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18		36	18.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE			91	30.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE	1068	1267	1484	1273.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	18	54	30.00
EUKIEFFERIELLA SP				
LARVAE	91	145	36	90.67
METRIOCNEMUS SP				
LARVAE	18			6.00
ORTHOCLADIUS SP				
LARVAE	145	127	561	277.67

SITE = 13 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 10.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	18	145	18	60.33
PARAPHAENOCLADIUS SP				
LARVAE		18	91	36.33
PARAMETRIOCNEMUS SP				
LARVAE	54		109	54.33
THIENEMANNIELLA SP				
LARVAE	36	18	18	24.00
CHIRONOMINAE				
PARATENDIPES SP				
LARVAE			36	12.00
POLYPEDILUM FALLAX GROUP				
LARVAE	18	36	127	60.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			18	6.00

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	199	127	235	187.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18	54	72	48.00
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS	18	18		12.00
IMMATURES WITH CAP. CHAETAE SP	36	18	235	96.33
IMMATURES W/O CAP. CHAETAE SP	18	18	181	72.33
NAIDIDAE				
NAIS SP	18	18	145	60.33
NAIS BEHNINGI	18			6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI			18	6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	72			24.00

2.4.5.868

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
BAETIS SP				
LARVAE		18	18	12.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE			18	6.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
DERONECTES SP				
ADULTS	36	18		18.00
DRYOPIDAE				
HELICHUS SP				
ADULTS			54	18.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	181	91	217	163.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	1520	1303	2968	1930.33
DIAMESINAE				
DIAMESA SP				
LARVAE	4163	3566	6100	4609.67

2.4.5.869

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	127	181		102.67
ORTHOCLADIUS SP				
LARVAE	9647	6371	12724	9580.67
PARAPHAENOCLADIUS SP				
LARVAE	398			132.67
PARAMETRIOCNEMUS SP				
LARVAE	398			132.67
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	127			42.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	54		18	24.00
SIMULIUM SP				
PUPAE		18	54	24.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	36		36	24.00

G-11-2 (Continued)

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	18	54	36	36.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	36	91	217	114.67
BAETIS SP				
LARVAE			54	18.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS		18		6.00
TRICHOPTERA				
UNIDENTIFIED				
LARVAE			18	6.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	72			24.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		18	36	18.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		18		6.00

2.4.5.871

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	36	109	127	90.67
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE	54	109	54	72.33
DIAMESA SP				
LARVAE	36	109	308	151.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	72	181	90.33
EUKIEFFERIELLA SP				
LARVAE	72		181	84.33
ORTHOCLADIUS SP				
LARVAE	1901	2444	4887	3077.33
PARAPHAENOCLADIUS SP				
LARVAE	453	561	742	585.33
PARAMETRIOCNEMUS SP				
LARVAE	18		54	24.00
THIENEMANNIELLA SP				
LARVAE	36		181	72.33

2.4.5.872

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	127	18	54	66.33

S-4

SITE = 17 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED			36	12.00
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	1158	507	869	844.67
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE			18	6.00
ORTHOCLADIUS SP				
LARVAE	18		18	12.00
PARAPHAENOCLADIUS SP				
LARVAE	18		36	18.00

2.4.5.874

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18		6.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED				
----------	18	36		18.00
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
---------- --				
ADULTS	18			6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE		36	18	18.00
CHIRONOMIDAE				
TANYPODINAE				
PSECTROTANYPUS SP				
---------- --				
LARVAE		36	18	18.00
THIENEMANNIMYIA GROUP SP				
---------- ----- --				
LARVAE			18	6.00
DIAMESINAE				
DIAMESA SP				
------- --				
LARVAE	18	181	72	90.33
ORTHOCLADIINAE				
UNIDENTIFIED				

LARVAE		18		6.00
ORTHOCLADIUS SP				
---------- --				
LARVAE	72	54	18	48.00

2.4.5.875

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	18	217	109	114.67
PARAMETRIOCNEMUS SP				
LARVAE		18		6.00
CHIRONOMINAE				
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE		18		6.00
TANYTARSUS SP				
LARVAE			18	6.00
MICROPSECTRA SP				
LARVAE		18		6.00

2.4.5.876

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18	181	54	84.33
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
LYMNAEIDAE				
LYMNAEA SP			18	6.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	18			6.00
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS			18	6.00
IMMATURES WITH CAP. CHAETAE SP	54	109	18	60.33
IMMATURES W/O CAP. CHAETAE SP	18	72	91	60.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	326	127	308	253.67
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	290	253	235	259.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00

2.4.5.877

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
CAENIDAE				
CAENIS SP				
LARVAE	18		72	30.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE	54	54	54	54.00
COENAGRION SP				
LARVAE	36	54	91	60.33
COLEOPTERA				
HALIPLIDAE				
PELTODYTES SP				
LARVAE	36			12.00
DYTISCIDAE				
DERONECTES SP				
ADULTS	72	18	36	42.00
ELMIDAE				
OPTIOSERVUS SP				
ADULTS			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	72	36	36	48.00
LIMNEPHILIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
GRAMMOTAULIUS SP				
LARVAE			18	6.00

2.4.5.878

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	434	543	561	512.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	91	91	127	103.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	72		145	72.33
DIAMESINAE				
DIAMESA SP				
LARVAE	72		91	54.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	72	127		66.33
EUKIEFFERIELLA SP				
LARVAE	670	127	235	344.00
ORTHOCLADIUS SP				
LARVAE	6932	4905	3131	4989.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		199		66.33
PARAPHAENOCLADIUS SP				
LARVAE	453	543	235	410.33

2.4.5.879

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	308	1014	742	688.00
SIMULIDAE				
UNIDENTIFIED				
LARVAE	17937	4616	6733	9762.00
SIMULIUM SP				
PUPAE	272	54	72	132.67
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE	18			6.00

SITE = 20 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	235	525		253.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	36			12.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	72	18		30.00
LIMNODRILUS UDEKEMIANUS	362			120.67
IMMATURES WITH CAP. CHAETAE SP	380	525		301.67
IMMATURES W/O CAP. CHAETAE SP	2914	2751		1888.33
THROPODA				
INSECTA				
COLLEMBOLA			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	91	91	36	72.67
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	1484	1032	163	893.00

2.4.5.881

G-11-2 (Continued)

SITE = 20 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	36	18	18	24.00
ORTHOCLADIUS SP				
LARVAE	54	109	36	66.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	18			6.00
PARAPHAENOCLADIUS SP				
LARVAE	18		18	12.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18	18	36	24.00
TABANIDAE				
CHRYSOPS SP				
LARVAE			18	6.00

2.4.5.882

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	398	326	145	289.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	18			6.00
LIMNODRILUS UDEKEMIANUS	54			18.00
IMMATURES WITH CAP. CHAETAE SP		36		12.00
IMMATURES W/O CAP. CHAETAE SP	272	434		235.33
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS	18		145	54.33
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE		18		6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	181	308	507	332.00

2.4.5.883

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	579	615	272	488.67
ORTHOCLADIINAE				
CRICOTOPUS SP				
LARVAE		18		6.00
CRICOTOPUS CRICOTOPUS				
LARVAE	18	18		12.00
ORTHOCLADIUS SP				
LARVAE	416	235	91	247.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		18		6.00

G-11-2 (Continued)

SITE = 22 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	181	127	272	193.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	36			12.00
IMMATURES WITH CAP. CHAETAE SP	18			6.00
IMMATURES W/O CAP. CHAETAE SP	163	18	54	78.33
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36	18	36	30.00
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	199	507	235	313.67
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	36	36	72	48.00
PARAPHAENOCLADIUS SP				
LARVAE	36	127		54.33

2.4.5.885

SITE = 22 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		18	36	18.00

2.4.5.886

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39	20		19.67
ANNELIDA				
OLIGOCHAETA				
MEGADRILE				
UNIDENTIFIED	20			6.67
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL	59			19.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	39	20		19.67
TUBIFEX TUBIFEX			20	6.67
IMMATURES WITH CAP. CHAETAE SP		39	20	19.67
IMMATURES W/O CAP. CHAETAE SP	156	156	20	110.67
NAIDIDAE				
NAIS SP	20			6.67
NAIS BEHNINGI		20		6.67

2.4.5.887

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	78	20	39.33
BAETIS SP				
LARVAE		20		6.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	39	59		32.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	995	2282	605	1294.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20	20	39	26.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20	117	39	58.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20	59	39	39.33
ISOGENUS SP				
LARVAE	39			13.00
ISOGENOIDES SP				
LARVAE	20			6.67

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
HYDROPSYCHE SP				
LARVAE	98	234	176	169.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	78	78	71.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	137	78	137	117.33
DIAMESINAE				
MONODIAMESA SP				
LARVAE		20		6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		59	39	32.67
CRICOTOPUS CRICOTOPUS				
LARVAE	20			6.67
EUKIEFFERIELLA SP				
LARVAE	20	39	78	45.67
ORTHOCLADIUS SP				
LARVAE	839	683	312	611.33

2.4.5.889

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			20	6.67
PARAKIEFFERIELLA SP				
LARVAE	20			6.67
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20	20	20	20.00
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	59			19.67
POLYPEDILUM SP				
LARVAE	176	78	20	91.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE		20		6.67
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE			20	6.67

2.4.5.890

SITE = 24 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39	98	195	110.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			20	6.67
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL	20			6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	215	117	78	136.67
IMMATURES WITH CAP. CHAETAE SP	39			13.00
IMMATURES W/O CAP. CHAETAE SP	488	234	312	344.67
NAIDIDAE				
NAIS SP	39	39	20	32.67
NAIS BEHNINGI		20		6.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	234	176	137	182.33

2.4.5.891

SITE = 24 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
BAETIS SP				
LARVAE	20			6.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	1073	1521	819	1137.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20	78		32.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE		78	20	32.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	117	215	20	117.33
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20	39	20	26.33
HYDROPSYCHE SP				
LARVAE	39	59	98	65.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

SITE = 24 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
MAYATRICHIA SP				
PUPAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	20	98	59.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	371	156	195	240.67
DIAMESINAE				
DIAMESA SP				
LARVAE	39			13.00
MONODIAMESA SP				
LARVAE	20	39		19.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	98	98		65.33
CRICOTOPUS SP				
LARVAE	39		39	26.00
CRICOTOPUS CRICOTOPUS				
LARVAE		39		13.00

SITE = 24 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE		39		13.00
EUKIEFFERIELLA SP				
LARVAE	98	59		52.33
ORTHOCLADIUS SP				
LARVAE	2223	1989	2379	2197.00
PARAKIEFFERIELLA SP				
LARVAE	20		39	19.67
PARAPHAENOCLADIUS SP				
LARVAE		137		45.67
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE			39	13.00
MICROTENDIPES SP				
LARVAE	78	488	780	448.67
PARACLADOPELMA SP				
LARVAE		39	39	26.00
POLYPEDILUM SP				
LARVAE			59	19.67

SITE = 24 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67
STICTOCHIRONOMUS SP				
LARVAE	78			26.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20	20		13.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

2.4.5.895

SITE = 25 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		98	59	52.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL		20		6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20		6.67
IMMATURES W/O CAP. CHAETAE SP	39	20	20	26.33
NAIDIDAE				
NAIS BEHNINGI			39	13.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	39			13.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	429	78	566	357.67
BAETIS SP				
LARVAE	137		20	52.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39	20		19.67

SITE = 25 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	20	78		32.67
LEPTOPHLEBIIDAE				
UNIDENTIFIED				
LARVAE	20	20	20	20.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	4797	4466	2964	4075.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	273	254	117	214.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	605	234	137	325.33
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	293	195	20	169.33
COLEOPTERA				
DRYOPIDAE				
HELICHUS SP				
ADULTS		20		6.67
ELMIDAE				
DUBIRAPHIA SP				
LARVAE		20		6.67
MICROCYLLOEPUS SP				
LARVAE		20		6.67

2.4.5.897

SITE = 25 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	215	156	351	240.67
HYDROPSYCHE SP				
LARVAE	449	254	351	351.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
LEPTOCERIDAE				
DECETIS SP				
LARVAE			78	26.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	78			26.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE		20	39	19.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	39	215	39	97.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		39		13.00
DIAMESINAE				
MONODIAMESA SP				
LARVAE	20	20		13.33

SITE = 25 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	20	59	20	33.00
EUKIEFFERIELLA SP				
LARVAE	117	215	117	149.67
ORTHOCLADIUS SP				
LARVAE	468	624	410	500.67
PARAKIEFFERIELLA SP				
LARVAE			20	6.67
PARAPHAENOCLADIUS SP				
LARVAE	20	20		13.33
ORTHOCLADIINAE SP. 4				
LARVAE	20	20		13.33
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20	117	98	78.33
PARACLADOPELMA SP				
LARVAE	20			6.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE			20	6.67

2.4.5.899

G-11-2 (Continued)

SITE = 25 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		20		6.67
CLADOTANYTARSUS SP				
LARVAE		39		13.00
RHEOTANYTARSUS SP				
LARVAE			39	13.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	39	59		32.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33

2.4.5.900

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	137		117	84.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL			59	19.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20	351	123.67
TUBIFEX TUBIFEX			137	45.67
IMMATURES WITH CAP. CHAETAE SP			59	19.67
IMMATURES W/O CAP. CHAETAE SP	117		20	45.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	215	156	78	149.67
BAETIS SP				
LARVAE	78	59		45.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	39	39		26.00

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	2691	2496	1658	2281.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	78	59	20	52.33
ODONATA				
ANISOPTERA				
GOMPHIDAE				
OPHIOGOMPHUS SEVERUS				
LARVAE	20			6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39	78	78	65.00
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	98	98		65.33
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	98	20		39.33
HYDROPSYCHE SP				
LARVAE	137	20	59	72.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	39		39	26.00

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
UNIDENTIFIED				
PUPAE	351	78	20	149.67
DIAMESINAE				
DIAMESA SP				
LARVAE	39		20	19.67
MONODIAMESA SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	117			39.00
CRICOTOPUS CRICOTOPUS				
LARVAE	20		39	19.67
EUKIEFFERIELLA SP				
LARVAE	117		39	52.00
ORTHOCLADIUS SP				
LARVAE	1326	371	507	734.67

2.4.5.903

G-11-2 (Continued)

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	20			6.67
PARAKIEFFERIELLA SP				
LARVAE	20		20	13.33
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	39	39	137	71.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE		20	20	13.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20	20		13.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

2.4.5.904

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			39	13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP				
--------- ---- --- ------- --			20	6.67
IMMATURES W/O CAP. CHAETAE SP				
--------- - - --- ------- --	39	59	59	52.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	20			6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	20	137	39	65.33
BAETIS SP				
------ --				
LARVAE	20			6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
---------- --				
LARVAE	2009	1814	761	1528.00
TRICORYTHIDAE				
TRICORYTHODES SP				
---------- --				
LARVAE	156	59	78	97.67
PLECOPTERA				
UNIDENTIFIED				

LARVAE	117	39	39	65.00

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE		20	20	13.33
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20	20	59	33.00
HYDROPSYCHE SP				
LARVAE	39		78	39.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
LEPTOCERIDAE				
OECETIS SP				
LARVAE	20			6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	39		20	19.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20		20	13.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE		20		6.67

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	59	59	20	46.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		39	59	32.67
CRICOTOPUS CRICOTOPUS				
LARVAE	20			6.67
EUKIEFFERIELLA SP				
LARVAE	59	39	78	58.67
ORTHOCLADIUS SP				
LARVAE	371	254	332	319.00
PARAKIEFFERIELLA SP				
LARVAE	20		39	19.67
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	39		39	26.00
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE		39	20	19.67

2.4.5.907

G-11-2 (Continued)

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		20		6.67
POLYPEDILUM FALLAX GROUP				
LARVAE	20			6.67

2.4.5.908

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	39	20	26.33
LIMNODRILUS PROFUNDICOLA			20	6.67
IMMATURES W/O CAP. CHAETAE SP	98	78	59	78.33
NAIDIDAE				
NAIS SP	117		39	52.00
NAIS BEHNINGI		20	20	13.33
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	39	20	78	45.67
LEPTOPHLEBIIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	312	234	176	240.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE			20	6.67

G-11-2 (Continued)

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE			20	6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
DIAMESINAE				
DIAMESA SP				
LARVAE	20			6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		39		13.00
CRICOTOPUS CRICOTOPUS				
LARVAE	20	20		13.33
EUKIEFFERIELLA SP				
LARVAE	20			6.67
ORTHOCLADIUS SP				
LARVAE	156	137	78	123.67
PARAKIEFFERIELLA SP				
LARVAE		39	39	26.00
PARAPHAENOCLADIUS SP				
LARVAE		20	39	19.67

2.4.5.910

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20			6.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			59	19.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		20		6.67
TUBIFICIDAE				
UNIDENTIFIED SP. 1			20	6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	59	20	98	59.00
LIMNODRILUS PROFUNDICOLA		20	59	26.33
TUBIFEX TUBIFEX		39		13.00
IMMATURES WITH CAP. CHAETAE SP		59	117	58.67
IMMATURES W/O CAP. CHAETAE SP	195	351	780	442.00
NAIDIDAE				
NAIS SP	39	59	624	240.67

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
ARACHNOIDEA				
ACARI			20	6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		20	98	39.33
BAETIS SP				
LARVAE	20		20	13.33
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	273	273	234	260.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	254	254	371	293.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39	20	39	32.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	176	137	59	124.00
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HYDROPSYCHE SP				
LARVAE		20		6.67

2.4.5.913

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20			6.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE			20	6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			20	6.67
PARAPHAENOCLADIUS SP				
LARVAE		20	78	32.67

SITE = 30 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			20	6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	39			13.00
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL	20			6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	59	39	78	58.67
IMMATURES WITH CAP. CHAETAE SP		20		6.67
IMMATURES W/O CAP. CHAETAE SP	195	332	20	182.33
NAIDIDAE				
NAIS SP		20		6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		39	78	39.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	137	39	65.33

SITE = 30 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	2048	917	1248	1404.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	156	78	254	162.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	78	39	293	136.67
COLEOPTERA				
ELMIDAE				
MICROCYLLOEPUS SP				
LARVAE	39	39	20	32.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	59	273	741	357.67
HYDROPSYCHE SP				
LARVAE	234	273	1307	604.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39		39	26.00

2.4.5.916

SITE = 30 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	117	20		45.67
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
UNIDENTIFIED				
PUPAE	254	156	59	156.33
TANYPODINAE				
PENTANEURINI SP				
LARVAE			20	6.67
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE	20		20	13.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	39	59	20	39.33
CRICOTOPUS SP				
LARVAE		20		6.67

2.4.5.917

SITE = 30 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	39	39	293	123.67
MICROCRICOTOPUS SP				
LARVAE			20	6.67
ORTHOCLADIUS SP				
LARVAE	624	488	449	520.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		20		6.67
PARAKIEFFERIELLA SP				
LARVAE	137	39	59	78.33
PARAPHAENOCLADIUS SP				
LARVAE	59			19.67
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE	20			6.67
MICROTENDIPES SP				
LARVAE	468	215	215	299.33
PARACLADOPELMA SP				
LARVAE			20	6.67

2.4.5.918

SITE = 30 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE			39	13.00
STENOCHIRONOMUS SP				
LARVAE		20		6.67
RHEOTANYTARSUS SP				
LARVAE	59	20	195	91.33
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20			6.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	59	20	20	33.00

2.4.5.919

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	59	117	78	84.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	20	39	20	26.33
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	20		13.33
IMMATURES W/O CAP. CHAETAE SP		234	195	143.00
NAIDIDAE				
NAIS SP		59	20	26.33
NAIS BEHNINGI		59		19.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		39	39	26.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		390	156	182.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20		6.67

2.4.5.920

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		78		26.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	839	2633	1716	1729.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20	39	59	39.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	59	78	117	84.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20	20	39	26.33
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	59	39	351	149.67
HYDROPSYCHE SP				
LARVAE	371	234	683	429.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

2.4.5.921

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	78	78	78	78.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	20		39	19.67
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
UNIDENTIFIED				
PUPAE	137	117	98	117.33
DIAMESINAE				
DIAMESA SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
CRICOTOPUS SP				
LARVAE	20			6.67
CRICOTOPUS CRICOTOPUS				
LARVAE	59	20		26.33

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	176	98	215	163.00
ORTHOCLADIUS SP				
LARVAE	390	507	488	461.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	20	20		13.33
PARAPHAENOCLADIUS SP				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		20	39	19.67
POLYPEDILUM SP				
LARVAE			20	6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE			98	32.67
PARATANYTARSUS SP				
LARVAE			20	6.67
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE			20	6.67

G-11-2 (Continued)

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	39	39		26.00

2.4.5.924

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	59	156	78.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1		78		26.00
ILYODRILUS TEMPLETONI		20		6.67
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL		39		13.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL	156	137	117	136.67
LIMNODRILUS PROFUNDICOLA		137	98	78.33
LIMNODRILUS UDEKEMIANUS			20	6.67
TUBIFEX TUBIFEX		59		19.67
IMMATURES WITH CAP. CHAETAE SP	59	156		71.67

2.4.5.925

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	1599	2048	1365	1670.67
NAIDIDAE				
NAIS SP		59	195	84.67
NAIS BEHNINGI	20			6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20			6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	20	20	20.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	449	1307	1131	962.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20			6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20	59	98	59.00
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	59	59	78	65.33

2.4.5.926

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENOIDES SP				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE		39	20	19.67
HYDROPSYCHE SP				
LARVAE	78	156	176	136.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE		20	39	19.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	117	117	78	104.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67

2.4.5.927

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	39	39	20	32.67
ORTHOCLADIUS SP				
LARVAE	273	488	702	487.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		20		6.67
PARAKIEFFERIELLA SP				
LARVAE			20	6.67
PARAPHAENOCLADIUS SP				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20		59	26.33
PARACLADOPELMA SP				
LARVAE		20		6.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE		20		6.67

G-11-2 (continued)

SITE = 33 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20		20	13.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20		20	13.33
IMMATURES W/O CAP. CHAETAE SP	98	98	176	124.00
NAIDIDAE				
NAIS SP				
			39	13.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	59	20	20	33.00
BAETIS SP				
LARVAE			20	6.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	20		20	13.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	605	507	468	526.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	39			13.00

SITE = 33 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	117	59	20	65.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	78	39	20	45.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE		20		6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	78			26.00
CRICOTOPUS SP				
LARVAE			20	6.67
ORTHOCLADIUS SP				
LARVAE	234	117	78	143.00
PARAKIEFFERIELLA SP				
LARVAE	39	20		19.67

SITE = 33 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		20		6.67
MICROTENDIPES SP				
LARVAE	20	20		13.33
PARACLADOPELMA SP				
LARVAE		39	20	19.67
POLYPEDILUM SP				
LARVAE	20			6.67
POLYPEDILUM FALLAX GROUP				
LARVAE	20			6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE	59	20	20	33.00
STICTOCHIRONOMUS SP				
LARVAE	20	59		26.33
PARATANYTARSUS SP				
LARVAE			20	6.67

SITE = 34 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		39		13.00
ANNELIDA				
OLIGOCHAETA				
MEGADRILE				
UNIDENTIFIED		20		6.67
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	20		13.33
TUBIFEX TUBIFEX		20	20	13.33
IMMATURES WITH CAP. CHAETAE SP			20	6.67
IMMATURES W/O CAP. CHAETAE SP	98	59	137	98.00
NAIDIDAE				
NAIS SP		20		6.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	39	39	137	71.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	234	644	325.33

2.4.5.932

SITE = 34 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		39	156	65.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	39		98	45.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	59		26.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20		6.67
EUKIEFFERIELLA SP				
LARVAE	20		410	143.33

SITE = 34 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	78	215	234	175.67
PARAKIEFFERIELLA SP				
LARVAE		20		6.67
PARAPHAENOCLADIUS SP				
LARVAE		20	39	19.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		20		6.67

SITE = 35 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	20		13.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP		20		6.67
IMMATURES W/O CAP. CHAETAE SP		78	20	32.67
NAIDIDAE				
NAIS SP	20			6.67
NAIS BEHNINGI		20		6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI			20	6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	273	176	351	266.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	20		20	13.33

SITE = 35 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
ODONATA				
ANISOPTERA				
GOMPHIDAE				
OPHIOGOMPHUS SEVERUS				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		20		6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39			13.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	98	20	59.00
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
UNIDENTIFIED				
PUPAE	39	78	195	104.00
DIAMESINAE				
DIAMESA SP				
LARVAE	39			13.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	39	20		19.67
CRICOTOPUS CRICOTOPUS				
LARVAE	78			26.00

GS-71

SITE = 35 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20		39	19.67
ORTHOCLADIUS SP				
LARVAE	702	293	975	656.67
PARAPHAENOCLADIUS SP				
LARVAE		20	39	19.67
PARAMETRIOCNEMUS SP				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20		20	13.33
POLYPEDILUM SP				
LARVAE		20		6.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

2.4.5.937

APPENDIX G-12-1

MACROINVERTEBRATE TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-12-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES,
MAY - JUNE 1976.

Plathelminthes
  Turbellaria
    Tricladida

Nematoda

Mollusca
  Gastropoda
    Basommatophora
      Lymnaeidae
        Lymnaea sp. Lamarck

Annelida
  Hirudinea
    Rhynchobdellida
      Glossiphoniidae
        Helobdella stagnalis (Linnaeus)
  Oligochaeta

Arthropoda
  Arachnoidea
    Acari
  Crustacea
    Amphipoda
      Talitridae
        Hyalella azteca
  Insecta
    Collembola
    Ephemeroptera
      Baetidae
        Baetis sp. Leach
        Dactylobaetis sp. Traver and Edmunds
      Heptageniidae
        Epeorus sp. Eaton
        Epeorus longimannis (Eaton)
        Heptagenia sp. Walsh
        Rhithrogena sp. Eaton
      Leptophlebiidae
        Paraleptophlebia sp. Lestage
      Ephemerellidae
        Ephemerella sp. Walsh

- Tricorythidae
  - *Tricorythodes* sp. Ulmer

Odonata
- Coenagrionidae
  - *Amphiagroion* sp. Celys
- Gomphidae

Plecoptera
- Nemouridae
  - *Nemoura* sp. Pictet
- Perlodidae
  - *Isogenus* sp. Newman
  - *Isoperla* sp. Banks

Coleoptera
- Dytiscidae
  - *Agabus* sp. Leach
  - *Deronectes* sp. Sharp
- Hydrophilidae
  - *Berosus* sp. Leach
  - *Cymbiodyta* sp. Bedel
- Elmidae
  - *Optioservus* sp. Sanderson

Trichoptera
- Hydropsychidae
  - *Cheumatopsyche* sp. Wallengren
  - *Hydropsyche* sp. Pictet
- Hydroptilidae
- Limnephilidae
  - *Hesperophylax* sp. Banks
  - *Limnephilus* sp. Leach
- Leptoceridae
  - *Oecetis* sp. McLanchlan
- Brachycentridae
  - *Brachycentrus* sp. Curtis

Lepidoptera
- Pyralidae

Diptera
- Tipulidae
  - *Ormosia* sp. Rondani
  - *Dicranota* sp. Zetterstedt
  - *Limnophila* sp. Macquart
  - *Holorusia* sp. Loew
- Psychodidae
  - *Pericoma* sp. Walker

Dixidae
  Dixa sp. Meigen
Ceratopogonidae
Chironomidae
Simuliidae
  Simulium sp. Latreille
Stratiomyidae
  Euparyphus sp. Gerstaecker
  Stratiomys sp. Geoffrey
Tabanidae
  Chrysops sp. Meigen
Rhagionidae
  Atherix variegata Walker
Empididae
Ephydridae
Muscidae
Anthyomiidae
  Limnophora aequifrons Stein
  Limnophora discreta Stein

APPENDIX G-12-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1976

APPENDIX G-12-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976. (Site = Station; Rep = Replicate)[1]

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED	1032	1846	2190	1689.33
NEMATODA			36	12.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18	18	12.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	18			6.00
INSECTA				
COLLEMBOLA			18	6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	4688	3204	6426	4772.67
BAETIS SP				
LARVAE			109	36.33
HEPTAGENIIDAE				
EPEORUS LONGIMANIS				
LARVAE	54	36	54	48.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	181	127	109	139.00

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

Sampling Method: Stations 1 - 21, Elliptical Modified Surber; Stations 22 - 35, Tall Modified Surber.

2.4.5.943

RBOSP PROGRESS REPORT

SITE = 01 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
LARVAE	1122	670	1303	1031.67
TRICHOPTERA				
LIMNEPHILIDAE				
HESPEROPHYLAX SP				
LARVAE		91	36	42.33
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE			91	30.33
DICRANOTA SP				
LARVAE	91	163	163	139.00
HOLORUSIA SP				
LARVAE	72	109	91	90.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE	18		18	12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18		18	12.00

2.4.5.944

SITE = 01 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	18		36	18.00
ORTHOCLADIUS SP				
LARVAE		18	72	30.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	145	181	145	157.00
PARAKIEFFERIELLA SP				
LARVAE			36	12.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE			18	6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE		36	36	24.00
STRATIOMYS SP				
LARVAE			18	6.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

SITE = 02 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18			6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	3475	5792	1738	3668.33
BAETIS SP				
LARVAE		72		24.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	18	18		12.00
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
LARVAE	18	18		12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	36	18		18.00
AGABUS SP				
ADULTS			18	6.00
DERONECTES SP				
ADULTS		18		6.00
TRICHOPTERA				
LIMNEPHILIDAE				
HESPEROPHYLAX SP				
LARVAE	72	36		36.00

2.4.5.946

SITE = 02 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE	36	344	91	157.00
HOLORUSIA SP				
LARVAE	54	127	54	78.33
CHIRONOMIDAE				
DIAMESINAE				
DIAMESA SP				
LARVAE	18	36		18.00
PSEUDODIAMESA PERTINAX				
LARVAE		54		18.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
LARVAE	72	54	18	48.00
ORTHOCLADIUS SP				
LARVAE	18	36	18	24.00
PARAPHAENOCLADIUS SP				
LARVAE		18		6.00
PARAMETRIOCNEMUS SP				
LARVAE		18		6.00

2.4.5.947

SITE = 02 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE		18		6.00

2.4.5.948

SITE = 03 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18			6.00
NAIDIDAE				
NAIS SP				
---- --	36	18	91	48.33
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE		18	18	12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	54	36	36	42.00
HYDROPHILIDAE				
UNIDENTIFIED				

LARVAE	54	18	54	42.00
BEROSUS SP				
------- --				
ADULTS			18	6.00
CYMBIODYTA SP				
--------- --				
ADULTS			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				

LARVAE	36	36		24.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
------- --				
LARVAE		36		12.00

2.4.5.949

SITE = 03 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE		18	18	12.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	91	72	18	60.33
DIAMESINAE				
DIAMESA SP				
LARVAE	36			12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	72	308		126.67
CORYNONEURA SP				
LARVAE			18	6.00
EUKIEFFERIELLA SP				
LARVAE	290	615	253	386.00
ORTHOCLADIUS SP				
LARVAE	959	1303	235	832.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	326	652	72	350.00

SITE = 03 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARACLADIUS SP				
LARVAE		36		12.00
PARAPHAENOCLADIUS SP				
LARVAE		36	54	30.00
THIENEMANNIELLA SP				
LARVAE	36		54	30.00
CHIRONOMINAE				
ENDOCHIRONOMUS SP				
LARVAE	36			12.00
PARACLADOPELMA SP				
LARVAE		36		12.00
MICROPSECTRA SP				
LARVAE	2244	1122	1231	1532.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		54		18.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	109	36	36	60.33

2.4.5.951

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP				
---- --		18		6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	18			6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	2679	1122	1882	1894.33
BAETIS SP				
------ --				
LARVAE	181	36	145	120.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
-------- --				
LARVAE	36	18	18	24.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	18	54	18	30.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
--------- --				
LARVAE	127	36	54	72.33
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE			54	18.00

G-12-2 (Continued)

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
LARSIA SP				
LARVAE	18			6.00
PSECTROTANYPUS SP				
LARVAE	18			6.00
DIAMESINAE				
DIAMESA SP				
LARVAE	18	18		12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	54	36		30.00
EUKIEFFERIELLA SP				
LARVAE	235	145	308	229.33
ORTHOCLADIUS SP				
LARVAE			18	6.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	72		91	54.33
PARAPHAENOCLADIUS SP				
LARVAE	18			6.00
PARAMETRIOCNEMUS SP				
LARVAE	36		36	24.00

G-12-2 (Continued)

SITE = 04 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		36		12.00
POLYPEDILUM FALLAX GROUP				
LARVAE	91	18		36.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			18	6.00

2.4.5.954

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	181	235	290	235.33
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	36	18	36	30.00
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	145	36		60.33
ILYODRILUS TEMPLETONI	72		235	102.33
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL			18	6.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL	308	72	290	223.33
RHYACODRILINAE SP	1665	833	326	941.33
RHYACODRILINAE SODALIS	1104	272	471	615.67
TUBIFEX TUBIFEX	72		18	30.00

2.4.5.955

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	453	145	290	296.00
IMMATURES W/O CAP. CHAETAE SP	706	127	199	344.00
NAIDIDAE				
NAIS SP	36	18		18.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED	18			6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		54	18	24.00
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	742	724	851	772.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	18	36		18.00
BAETIS SP				
LARVAE	72		54	42.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE		54	18	24.00

2.4.5.956

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18	72	54	48.00
AGABUS SP				
LARVAE		54	18	24.00
DERONECTES SP				
ADULTS	91	18	54	54.33
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		18		6.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	2027	1195	2625	1949.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	18		36	18.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	760	579	525	621.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	72	72	18	54.00
TANYPODINAE				
PENTANEURINI SP				
LARVAE		72		24.00

2.4.5.957

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
NILOTANYPUS SP				
LARVAE	163	109	36	102.67
THIENEMANNIMYIA GROUP SP				
LARVAE	36	36	127	66.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36	36	127	66.33
CHAETOCLADIUS SP				
LARVAE	54			18.00
CRICOTOPUS CRICOTOPUS				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE	163	145	72	126.67
ORTHOCLADIUS SP				
LARVAE	1846	2389	2842	2359.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	163	109	127	133.00
PARAKIEFFERIELLA SP				
LARVAE		36		12.00

2.4.5.958

SITE = 05 REPS= 3 SITE DESC = HEADWATER STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	36			12.00
THIENEMANNIELLA SP				
LARVAE	127	109	163	133.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	181	253	235	223.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		18		6.00

SITE = 06 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		36	36	24.00
ARTHROPODA				
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA				
-------- - ----			18	6.00
INSECTA				
COLLEMBOLA	18	18	18	18.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	72		54	42.00
BAETIS SP				
------ --				
LARVAE			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				

LARVAE			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE		18	18	12.00
CHIRONOMIDAE				
ORTHOCLADIINAE				
CORYNONEURA SP				
---------- --				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
---------- --				
LARVAE		18		6.00

2.4.5.960

SITE = 06 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	18	72	109	66.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	36			12.00
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE			18	6.00

2.4.5.961

G-12-2 (Continued)

SITE = 07 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		109	109	72.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		18	18	12.00
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	36	72	109	72.33
BAETIS SP				
LARVAE			36	12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE	91	163	290	181.33
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	36	36	91	54.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00

2.4.5.962

SITE = 07 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	54	109	199	120.67
TANYPODINAE				
LARSIA SP				
LARVAE			18	6.00
THIENEMANNIMYIA GROUP SP				
LARVAE			18	6.00
DIAMESINAE				
DIAMESA SP				
LARVAE		18		6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
PUPAE			18	6.00
CORYNONEURA SP				
LARVAE		18	18	12.00
EUKIEFFERIELLA SP				
LARVAE	36	235	344	205.00
ORTHOCLADIUS SP				
LARVAE	54	91	199	114.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	109	109	18	78.67

2.4.5.963

SITE = 07 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	18	18	36	24.00
PARAMETRIOCNEMUS SP				
LARVAE	72	163	344	193.00
THIENEMANNIELLA SP				
LARVAE		18		6.00
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE		54	18	24.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		109	18	42.33
UNIDENTIFIED				
PUPAE			18	6.00

2.4.5.964

SITE = 08 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	36	18		18.00
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE			18	6.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			36	12.00
PARAMETRIOCNEMUS SP				
LARVAE	18		18	12.00

2.4.5.965

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18		18	12.00
NAIDIDAE				
NAIS SP				
---- --			18	6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		18		6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	217	579	181	325.67
BAETIS SP				
------ --				
LARVAE	109	163	54	108.67
PLECOPTERA				
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
------- --				
LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	36	127	18	60.33
HYDROPHILIDAE				
UNIDENTIFIED				

LARVAE	36		18	18.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
--------- --				
LARVAE	91	72	109	90.67

2.4.5.966

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	145	91	109	115.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	217	308	91	205.33
TANYPODINAE				
PENTANEURINI SP				
LARVAE	36	36		24.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE		36		12.00
DIAMESA SP				
LARVAE	72	72	72	72.00
PSEUDODIAMESA PERTINAX				
LARVAE			36	12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	72	72	18	54.00
CHAETOCLADIUS SP				
LARVAE		36		12.00
CORYNONEURA SP				
LARVAE	18	36		18.00

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	543	833	634	670.00
ORTHOCLADIUS SP				
LARVAE	1086	652	634	790.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	290	1104	634	676.00
PARAPHAENOCLADIUS SP				
LARVAE	54	109	18	60.33
PARAMETRIOCNEMUS SP				
LARVAE	199	253	416	289.33
THIENEMANNIELLA SP				
LARVAE	18			6.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE			36	12.00
PARACLADOPELMA SP				
LARVAE	54	253	91	132.67
POLYPEDILUM SP				
LARVAE	54			18.00

2.4.5.968

SITE = 09 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE		72	36	36.00
MICROPSECTRA SP				
LARVAE	18		18	12.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		36	18	18.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		18	72	30.00
EPHYDRIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	18	91	72	60.33

2.4.5.969

SITE = 13 REPS= 2 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE				
COLEOPTERA				
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE	18			9.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	181	36		108.50
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18			9.00
EUKIEFFERIELLA SP				
LARVAE	72	18		45.00
ORTHOCLADIUS SP				
LARVAE	54	36		45.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	36			18.00
THIENEMANNIELLA SP				
LARVAE		18		9.00
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		18		9.00

SITE = 13 REPS= 2 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	36			18.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	253	72		162.50
EMPIDIDAE				
UNIDENTIFIED				
LARVAE				
MUSCIDAE				
UNIDENTIFIED				
LARVAE	18			9.00

2.4.5.971

G-12-2 (Continued)

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54	579	742	458.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	54	18	36	36.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1		344	109	151.00
UNIDENTIFIED SP. 2		127		42.33
IMMATURES WITH CAP. CHAETAE SP	36	36		24.00
IMMATURES W/O CAP. CHAETAE SP	18		18	12.00
NAIDIDAE				
NAIS SP	18		18	12.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	18	36	18	24.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
AMPHIAGRION SP				
LARVAE			18	6.00

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	109	54	91	84.67
DERONECTES SP				
ADULTS	434	36	72	180.67
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE		36	18	18.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	36			12.00
DIPTERA				
DIXIDAE				
DIXA SP				
LARVAE		18		6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	1466	2860	3149	2491.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	36	18	24.00
DIAMESINAE				
DIAMESA SP				
LARVAE			18	6.00
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE			18	6.00

2.4.5.973

SITE = 14 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	145	18	18	60.33
ORTHOCLADIUS SP				
LARVAE	2353	1955	2317	2208.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	91		72	54.33
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	145	91	18	84.67
PARATANYTARSUS SP				
LARVAE		18		6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	634	1213	1846	1231.00
TABANIDAE				
CHRYSOPS SP				
LARVAE			18	6.00

2.4.5.974

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			72	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			18	6.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1		36		12.00
NAIDIDAE				
NAIS SP	217	796	127	380.00
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED			18	6.00
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	326	308	163	265.67
DERONECTES SP				
ADULTS	18			6.00
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	163	127	380	223.33

2.4.5.975

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
PSYCHODIDAE				
PERICOMA SP				
LARVAE		18	18	12.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	199	91	54	114.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	1213	887	941	1013.67
TANYPODINAE				
PENTANEURINI SP				
LARVAE			127	42.33
PSECTROTANYPUS SP				
LARVAE		91		30.33
DIAMESINAE				
DIAMESA SP				
LARVAE	398	91	127	205.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			1122	374.00
EUKIEFFERIELLA SP				
LARVAE	127		127	84.67
ORTHOCLADIUS SP				
LARVAE	9340	7258	6154	7584.00

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	2733	561	3511	2268.33
PARACLADIUS SP				
LARVAE	127			42.33
PARAPHAENOCLADIUS SP				
LARVAE		91	253	114.67
THIENEMANNIELLA SP				
LARVAE	253	561	887	567.00
CHIRONOMINAE				
PARATENDIPES SP				
LARVAE		272	253	175.00
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	253		127	126.67
POLYPEDILUM FALLAX GROUP				
LARVAE	398	272		223.33
MICROPSECTRA SP				
LARVAE	905	742	760	802.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

2.4.5.977

SITE = 15 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
EPHYDRIDAE				
UNIDENTIFIED				
LARVAE	778	507	471	585.33
UNIDENTIFIED				
PUPAE	18	18	36	24.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	91	72	54	72.33

SITE = 17 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP				
---- --	18	18		12.00
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	54		91	48.33
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				

LARVAE		18	18	12.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE	18		36	18.00
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE	579	833	742	718.00
DIAMESINAE				
DIAMESINAE SP. 1				
---------- -- -				
LARVAE			217	72.33
DIAMESA SP				
------- --				
LARVAE	1846	905	959	1236.67
ORTHOCLADIINAE				
UNIDENTIFIED				

LARVAE	977	398	543	639.33

2.4.5.979

G-12-2 (Continued)

SITE = 17 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CHAETOCLADIUS SP				
LARVAE	1086	1502	1919	1502.33
EUKIEFFERIELLA SP				
LARVAE	109			36.33
ORTHOCLADIUS SP				
LARVAE	6064	7005	5683	6250.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	543		217	253.33
PARAPHAENOCLADIUS SP				
LARVAE			217	72.33
THIENEMANNIELLA SP				
LARVAE	543	706	109	452.67
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	109	398	326	277.67
EPHYDRIDAE				
UNIDENTIFIED				
LARVAE	109	127	235	157.00
UNIDENTIFIED				
PUPAE	18			6.00

2.4.5.980

G-12-2 (Continued)

SITE = 17 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	54	91	66.33

2.4.5.981

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	36		36	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP	181		181	120.67
LUMBRICULIDA				
LUMBRICULIDAE				
UNIDENTIFIED	959	1104		687.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		18	36	18.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	36	72		36.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	36	91	36	54.33
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36	91	18	48.33

2.4.5.982

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	815	561	778	718.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			54	18.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE			54	18.00
DIAMESA SP				
LARVAE	308	109	235	217.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		1249	579	609.33
CHAETOCLADIUS SP				
LARVAE	72	308	54	144.67
EUKIEFFERIELLA SP				
LARVAE	72	217	54	114.33
METRIOCNEMUS SP				
LARVAE			54	18.00
ORTHOCLADIUS SP				
LARVAE	4833	6045	2787	4555.00

2.4.5.983

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	1846	1249	1448	1514.33
PARACLADIUS SP				
LARVAE	72			24.00
PARAPHAENOCLADIUS SP				
LARVAE	380	525	181	362.00
THIENEMANNIELLA SP				
LARVAE	380	416	109	301.67
CHIRONOMINAE				
PARACLADOPELMA SP				
LARVAE			109	36.33
MICROPSECTRA SP				
LARVAE		109	109	72.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	54		18	24.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
EPHYDRIDAE				
UNIDENTIFIED				
LARVAE	36	18	18	24.00

2.4.5.984

G-12-2 (Continued)

SITE = 18 REPS= 3 SITE DESC = TRACT STATION COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	18	54	18	30.00
LIMNOPHORA DISCRETA				
LARVAE	36		72	36.00

2.4.5.985

G-12-2 (Continued)

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		18		6.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
LYMNAEIDAE				
LYMNAEA SP	36	54	54	48.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	91			30.33
IMMATURES WITH CAP. CHAETAE SP	706	109	163	326.00
IMMATURES W/O CAP. CHAETAE SP	199	36		78.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	54	18	145	72.33
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	18	54	18	30.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED LARVAE		36		12.00
BAETIS SP LARVAE		18		6.00

2.4.5.986

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
EPEORUS SP				
LARVAE		18	18	12.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE			109	36.33
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
DERONECTES SP				
ADULTS			18	6.00
ELMIDAE				
OPTIOSERVUS SP				
LARVAE			18	6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	18		36	18.00
LIMNEPHILIDAE				
GRAMMOTAULIUS SP				
LARVAE	18			6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	109	398	1249	585.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	54	18	18	30.00

2.4.5.987

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			36	12.00
DIAMESINAE				
DIAMESA SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		398	109	169.00
CRICOTOPUS CRICOTOPUS				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE	181	1068	796	681.67
ORTHOCLADIUS SP				
LARVAE	760	2679	1376	1605.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	398			132.67
PARAPHAENOCLADIUS SP				
LARVAE	18			6.00
PARAMETRIOCNEMUS SP				
LARVAE	18			6.00

2.4.5.988

SITE = 19 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
PARATENDIPES SP				
LARVAE	36			12.00
TANYTARSUS SP				
LARVAE		54		18.00
MICROPSECTRA SP				
LARVAE	326	199	507	344.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	1158	1086	4091	2111.67
SIMULIUM SP				
PUPAE			36	12.00

2.4.5.989

SITE = 20 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	127	18	127	90.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP				
--------- - - --- ------- --	18	18	54	30.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	36			12.00
INSECTA				
COLEOPTERA				
UNIDENTIFIED				

LARVAE		36		12.00
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	54			18.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE	54	72	18	48.00
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE	163	36	109	102.67
ORTHOCLADIINAE				
CORYNONEURA SP				
---------- --				
LARVAE	36	18		18.00
CRICOTOPUS CRICOTOPUS				
---------- ----------				
LARVAE		36		12.00

2.4.5.990

SITE = 20 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS C.F. TRICINCTUS				
LARVAE	72	18		30.00
EUKIEFFERIELLA SP				
LARVAE	127	36	18	60.33
ORTHOCLADIUS SP				
LARVAE	109	91	217	139.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	72	109		60.33
PARAPHAENOCLADIUS SP				
LARVAE	253	163	344	253.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	1991	1231	1213	1478.33
SIMULIUM SP				
PUPAE	1122	326	869	772.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	145	36	36	72.33

2.4.5991

SITE = 20 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA DISCRETA				
LARVAE		18		6.00

2.3.5.992

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	308	308	453	356.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	18		18	12.00
LIMNODRILUS PROFUNDICOLA	36		36	24.00
LIMNODRILUS UDEKEMIANUS	18			6.00
IMMATURES WITH CAP. CHAETAE SP	18			6.00
IMMATURES W/O CAP. CHAETAE SP	217	453	163	277.67
NAIDIDAE				
NAIS SP		18		6.00
ARTHROPODA				
INSECTA				
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	36			12.00

2.4.5.993

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	127	91	272	163.33
DERONECTES SP				
ADULTS	181	163	109	151.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	127	398	199	241.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	453	760	489	567.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		253	163	138.67
CORYNONEURA SP				
LARVAE	54			18.00
CRICOTOPUS SP				
LARVAE		127	54	60.33
CRICOTOPUS CRICOTOPUS				
LARVAE	561	326	525	470.67
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	815	652	471	646.00

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	380	253		211.00
ORTHOCLADIUS SP				
LARVAE	4453	4326	3892	4223.67
PARAKIEFFERIELLA SP				
LARVAE			109	36.33
PARAPHAENOCLADIUS SP				
LARVAE		597	54	217.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	54			18.00
TANYTARSUS SP				
LARVAE			54	18.00
MICROPSECTRA SP				
LARVAE		72		24.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	163	199	163	175.00
SIMULIUM SP				
PUPAE	145	72	91	102.67

2.4.5.995

SITE = 21 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER CONVERSION FACTOR= 18.1

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	18	18	18	18.00

G-12-2 (Continued)

SITE = 22 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20		20	13.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20			6.67
LIMNODRILUS PROFUNDICOLA		20		6.67
IMMATURES W/O CAP. CHAETAE SP	390	936	351	559.00
NAIDIDAE				
NAIS SP	312	117	117	182.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		20	39	19.67
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	20	20	78	39.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	98	39	176	104.33

2.4.5.997

G-12-2 (Continued)

SITE = 22 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
CRICOTOPUS CRICOTOPUS				
LARVAE			156	52.00
CRICOTOPUS ISOCLADIUS				
LARVAE		20	20	13.33
EUKIEFFERIELLA SP				
LARVAE	195	215	585	331.67
ORTHOCLADIUS SP				
LARVAE	215	254	410	293.00
PARAPHAENOCLADIUS SP				
LARVAE	78	117	137	110.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	312	234	390	312.00
SIMULIUM SP				
PUPAE	78	39	78	65.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

2.4.5.998

SITE = 22 REPS= 3 SITE DESC = YELLOW CREEK COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE			20	6.67

2.4.5.999

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		20		6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20		6.67
IMMATURES W/O CAP. CHAETAE SP	20		59	26.33
NAIDIDAE				
NAIS SP				
		20		6.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	527	1658	488	891.00
BAETIS SP				
LARVAE	20	39	39	32.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	39	117	20	58.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	39	332	98	156.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67

2.4.5.1000

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE		39	20	19.67
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		20	20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20	39		19.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	59	39	39	45.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	39	117		52.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			20	6.67
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	20			6.67
EUKIEFFERIELLA SP				
LARVAE	20	98	137	85.00
ORTHOCLADIUS SP				
LARVAE		39		13.00

SITE = 23 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	98		39	45.67
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE		20		6.67
PARATANYTARSUS SP				
LARVAE	39	20		19.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	234	741	1014	663.00
SIMULIUM SP				
PUPAE	20	20	20	20.00
EMPIDIDAE				
UNIDENTIFIED				
PUPAE		20		6.67

SITE = 25 REPS= 2 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39	39		39.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		39		19.50
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	39			19.50
IMMATURES WITH CAP. CHAETAE SP	20			10.00
IMMATURES W/O CAP. CHAETAE SP	20	20		20.00
NAIDIDAE				
NAIS SP	59			29.50
NAIS BEHNINGI		59		29.50
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39		29.50
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	312	429		370.50

2.4.5.1003

SITE = 25 REPS= 2 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		10.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	312		205.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	39	39		39.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE		59		29.50
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20			10.00
HYDROPSYCHE SP				
LARVAE	39	195		117.00
HYDROPSYCHE SP				
PUPAE		78		39.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20		10.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20			10.00

SITE = 25 REPS= 2 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		19.50
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	20			10.00
CRICOTOPUS CRICOTOPUS				
LARVAE	176	59		117.50
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE		39		19.50
EUKIEFFERIELLA SP				
LARVAE	371	176		273.50
ORTHOCLADIUS SP				
LARVAE	351	156		253.50
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	59	137		98.00
PARAKIEFFERIELLA SP				
LARVAE		20		10.00

SITE = 25 REPS= 2 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		20		10.00
MICROTENDIPES SP				
LARVAE	39	39		39.00
POLYPEDILUM SP				
LARVAE	20			10.00
POLYPEDILUM FALLAX GROUP				
LARVAE	39	98		68.50
POLYPEDILUM TRIPODURA GRP.				
LARVAE	59			29.50
PARATANYTARSUS SP				
LARVAE	215	39		127.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	78	78		78.00

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	39	156	71.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	59	20	20	33.00
IMMATURES W/O CAP. CHAETAE SP			20	6.67
NAIDIDAE				
NAIS SP	59			19.67
NAIS BEHNINGI		39	20	19.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		39		13.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	234	156	371	253.67
BAETIS SP				
LARVAE		20	20	13.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20			6.67

G-12-2 (Continued)

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	176	273	351	266.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE		39	20	19.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20	39	39	32.67
ISOGENUS SP				
LARVAE			20	6.67
COLEOPTERA				
ELMIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HYDROPSYCHE SP				
LARVAE	20		117	45.67
HYDROPSYCHE SP				
PUPAE		20		6.67
CHEUMATOPSYCHE SP				
LARVAE			20	6.67

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE		20	39	19.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	98	176	98.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20			6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	20			6.67
CRICOTOPUS CRICOTOPUS				
LARVAE		39	20	19.67
EUKIEFFERIELLA SP				
LARVAE	137	78	215	143.33

2.4.5.1009

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	78	156	176	136.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	20		546	188.67
PARAKIEFFERIELLA SP				
LARVAE	20			6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		39	20	19.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	20			6.67
POLYPEDILUM SP				
LARVAE		20		6.67
POLYPEDILUM FALLAX GROUP				
LARVAE	20	20	137	59.00
POLYPEDILUM TRIPODURA GRP.				
LARVAE	39	20		19.67
PARATANYTARSUS SP				
LARVAE		98	137	78.33

2.4.5.1010

SITE = 26 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	20			6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			137	45.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			39	13.00

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	20	20	39	26.33
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20		6.67
IMMATURES W/O CAP. CHAETAE SP	39	20	20	26.33
NAIDIDAE				
NAIS SP	20			6.67
NAIS BEHNINGI		39		13.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39		19.67
INSECTA				
COLLEMBOLA	20			6.67
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	410	429	1326	721.67
BAETIS SP				
LARVAE	39			13.00

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
DACTYLOBAETIS SP				
LARVAE	20			6.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE			20	6.67
RHITHROGENA SP				
LARVAE			39	13.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	351	156	429	312.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE		20		6.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20		20	13.33
COLEOPTERA				
ELMIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HYDROPSYCHE SP				
LARVAE		59	78	45.67

2.4.5.1013

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
PUPAE		39		13.00
HYDROPSYCHE SCALARIS				
PUPAE		20		6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		98	39	45.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE	20			6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	117	59	176	117.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20	20	13.33

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	117	39		52.00
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	273	176		149.67
EUKIEFFERIELLA SP				
LARVAE	975	839	215	676.33
ORTHOCLADIUS SP				
LARVAE	59	117	59	78.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	20		20	13.33
PARAKIEFFERIELLA SP				
LARVAE	20	20		13.33
ORTHOCLADIINAE SP. 1				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		20		6.67
POLYPEDILUM SP				
LARVAE	20	20		13.33

2.4.5.1014

SITE = 27 REPS= 3 SITE DESC = UPPER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	78	137	20	78.33
TANYTARSUS SP				
LARVAE		20		6.67
PARATANYTARSUS SP				
LARVAE	39	98	20	52.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	254	195	156	201.67
SIMULIUM SP				
PUPAE	20		39	19.67

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			20	6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL			20	6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	254		59	104.33
IMMATURES W/O CAP. CHAETAE SP	273	78	137	162.67
NAIDIDAE				
NAIS SP		20	20	13.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	59	176		78.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	449	488	293	410.00
BAETIS SP				
LARVAE	20	20		13.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39	98		45.67

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	156	215	59	143.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	98	20	20	46.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE		20		6.67
COLEOPTERA				
ELMIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE		20		6.67
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	215	156	59	143.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20			6.67

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	98	371	117	195.33
EUKIEFFERIELLA SP				
LARVAE	137	39		58.67
ORTHOCLADIUS SP				
LARVAE	351	332	254	312.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		39		13.00
PARAKIEFFERIELLA SP				
LARVAE		137	156	97.67
THIENEMANNIELLA SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20			6.67
PARACLADOPELMA SP				
LARVAE			20	6.67
POLYPEDILUM SP				
LARVAE	39	59	39	45.67

SITE = 28 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	78	156		78.00
POLYPEDILUM TRIPODURA GRP.				
LARVAE	78	39	39	52.00
PARATANYTARSUS SP				
LARVAE		156	78	78.00
RHEOTANYTARSUS SP				
LARVAE		20		6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20	39	39	32.67
SIMULIUM SP				
PUPAE			20	6.67

2.4.5.1019

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 2			39	13.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL	59		137	65.33
IMMATURES WITH CAP. CHAETAE SP			20	6.67
IMMATURES W/O CAP. CHAETAE SP	98		117	71.67
NAIDIDAE				
NAIS SP	78		39	39.00
RTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	878	1638	2301	1605.67
BAETIS SP				
LARVAE	78	137	59	91.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39		13.00
RHITHROGENA SP				
LARVAE	254	312	312	292.67

2.4.5.1020

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	273	917	1014	734.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	20	39	78	45.67
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		39	39	26.00
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		20	98	39.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			20	6.67
EUKIEFFERIELLA SP				
LARVAE	20	117	254	130.33
ORTHOCLADIUS SP				
LARVAE	78	98	156	110.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	20		293	104.33
PARAPHAENOCLADIUS SP				
LARVAE		39		13.00

2.4.5.1021

SITE = 29 REPS= 3 SITE DESC = CONFLUENCE COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		98	98	65.33
POLYPEDILUM FALLAX GROUP				
LARVAE		20		6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE		39		13.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	488	390	2555	1144.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		20		6.67

2.4.5.1022

G-12-2 (Continued)

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39			13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			59	19.67
TUBIFEX TUBIFEX			20	6.67
IMMATURES WITH CAP. CHAETAE SP			59	19.67
IMMATURES W/O CAP. CHAETAE SP		20	215	78.33
NAIDIDAE				
NAIS SP		20		6.67
NAIS BEHNINGI		39	176	71.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	59	20	33.00
INSECTA				
COLLEMBOLA	20			6.67

2.4.5.1023

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	137	371	605	371.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39	39	26.00
RHITHROGENA SP				
LARVAE		20		6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE		176	371	182.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	39	39	137	71.67
TRICHOPTERA				
HYDROPSYCHIDAE				
CHEUMATOPSYCHE SP				
LARVAE			20	6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		39	98	45.67
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	39	137	65.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67

2.4.5.1024

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20		6.67
CRICOTOPUS CRICOTOPUS				
LARVAE	20	20	195	78.33
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE		59	98	52.33
EUKIEFFERIELLA SP				
LARVAE	20	215	488	241.00
ORTHOCLADIUS SP				
LARVAE	39	59	683	260.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		39	39	26.00
PARAKIEFFERIELLA SP				
LARVAE		59	176	78.33
THIENEMANNIELLA SP				
LARVAE			20	6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		20		6.67

SITE = 31 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE			39	13.00
POLYPEDILUM FALLAX GROUP				
LARVAE		20	59	26.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20	39		19.67
PARATANYTARSUS SP				
LARVAE		59	39	32.67
RHEOTANYTARSUS SP				
LARVAE	39	20		19.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		98	39	45.67

2.4.5.1026

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 2			20	6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	176	137	332	215.00
LIMNODRILUS PROFUNDICOLA	78	39	59	58.67
IMMATURES WITH CAP. CHAETAE SP	78	20	39	45.67
IMMATURES W/O CAP. CHAETAE SP	839	410	761	670.00
NAIDIDAE				
NAIS SP	78	78	39	65.00
NAIS BEHNINGI			20	6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		98		32.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	527	975	195	565.67

2.4.5.1026

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39	20		19.67
RHITHROGENA SP				
LARVAE	59	20	39	39.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	137		78.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	98	59	39	65.33
TRICHOPTERA				
HYDROPSYCHIDAE				
CHEUMATOPSYCHE SP				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE			20	6.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		39		13.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	137	39	234	136.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE			20	6.67

2.4.5.1027

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS SP				
LARVAE		20		6.67
CRICOTOPUS CRICOTOPUS				
LARVAE	78	59	78	71.67
EUKIEFFERIELLA SP				
LARVAE		59		19.67
ORTHOCLADIUS SP				
LARVAE	117	371	98	195.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		20		6.67
PARAKIEFFERIELLA SP				
LARVAE	78	39	59	58.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		39		13.00
PARACLADOPE_MA SP				
LARVAE			20	6.67
PHAENOPSECTRA PHAENOPSECTRA				
LARVAE	20			6.67

2.4.5.1028

SITE = 32 REPS= 3 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR= 19.5

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	59	137	332	176.00
POLYPEDILUM FALLAX GROUP				
LARVAE		20	117	45.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE	39	39	78	52.00
RHEOTANYTARSUS SP				
LARVAE	39	39		26.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
SIMULIUM SP				
PUPAE	20			6.67

2.4.5.1029

G-12-2 (Continued)

SITE = 35 REPS= 2 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR= 1.0

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	9	9		9.00
TUBIFEX TUBIFEX		1		.50
IMMATURES WITH CAP. CHAETAE SP		1		.50
IMMATURES W/O CAP. CHAETAE SP	9	21		15.00
NAIDIDAE				
NAIS BEHNINGI	6	7		6.50
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	23	26		24.50
BAETIS SP				
LARVAE	2			1.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	15	1		8.00
RHITHROGENA SP				
LARVAE	4			2.00

2.4.5.1030

SITE = 35 REPS= 2 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR= 1.0

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
PARALEPTOPHLEBIA SP				
LARVAE	1			.50
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	109	105		107.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	19	11		15.00
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE		1		.50
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE	10	4		7.00
ISOGENUS SP				
LARVAE	1			.50
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	2			1.00
HYDROPSYCHE SP				
LARVAE	9	2		5.50
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		4		2.00

2.4.5.1031

G-12-2 (Continued)

SITE = 35 REPS= 2 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR= 1.0

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	1			.50
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		1		.50
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	7	5		6.00
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	5			2.50
EUKIEFFERIELLA SP				
LARVAE	11	7		9.00
ORTHOCLADIUS SP				
LARVAE	11	7		9.00
PARAKIEFFERIELLA SP				
LARVAE	1	1		1.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		1		.50
POLYPEDILUM SP				
LARVAE	2	4		3.00

2.4.5.1032

G-12-2 (Continued)

SITE = 35 REPS= 2 SITE DESC = LOWER WHITE RIVER COLLECTION METHOD = D-FRAME CONVERSION FACTOR= 1.0

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	3	3		3.00
RHEOTANYTARSUS SP				
LARVAE	1	2		1.50
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		2		1.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE		2		1.00

2.4.5.1033

2.4.6 Sediment Chemistry

Appendices G-13-1 and G-14-1 include the results of chemical analysis of sediment samples collected during the May - June and July - August 1976 collection periods, respectively. A summary of results for the two sampling periods is presented below. Concentrations of the parameters were generally similar to those observed during corresponding sampling periods in 1975.

May - June 1976

Parameter (µg/g)	White River	Yellow Creek
Aluminum	3,800-11,000	6,200-7,400
Arsenic	3- 6	4- 9
Lead	4- 13	5- 9
Zinc	26- 66	29- 38

July - August 1976

Parameter (µg/g)	White River	Yellow Creek
Aluminum	3,800-11,900	4,600-12,700
Arsenic	4- 10	3- 7
Lead	4- 16	4- 15
Zinc	25- 59	24- 72

2.4.6 - Sediment Chemistry Data

APPENDIX G-13-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX G-13-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.[1]
(Results are expressed in µg/g unless otherwise stated.)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
1-A	10000	42	20	60	1518	1032	77400	80
1-B	11000	39	24	40	1756	1067	85600	77
2-A	11000	24	16	36	1074	986	59200	72
2-B	11000	27	14	34	1067	951	52800	67
3-A	11000	9	10	22	375	716	29300	57
3-B	11000	8	10	20	422	726	32000	58
4-A	11000	19	14	22	542	808	47700	62
4-B	12000	18	16	26	594	817	44900	67
5-A	9300	6	10	<20	565	667	37200	46
5-B	10000	6	12	<20	662	698	41000	48
6-A	10000	8	13	<20	387	705	33700	44
6-B	10000	6	14	<20	378	700	32200	43
7-A	9800	17	18	<20	350	654	33900	48
7-B	10000	16	19	<20	383	667	33000	50
8-A	8900	10	15	<20	376	677	30800	47
8-B	8900	12	16	<20	317	692	30800	45
9-A	10000	18	21	<20	375	701	36500	48
9-B	10000	17	19	<20	364	720	36800	48
13-A	9500	9	21	40	271	652	31900	45
13-B	9800	9	23		269	668	32200	45

[1] Stations 10 - 12, 16, 24, 30, 33, and 34 were dry or inaccessible at the time of sampling.

APPENDIX G-13-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
14-A	12000	4	15	22	249	538	32000	37
14-B	12000	4	17	30	252	529	31800	37
15-A	9700	6	16	20	239	563	29200	34
15-B	9400	6	18	16	238	567	28900	34
17-A	8600	4	16	<20	94	585	19600	35
17-B	8800	3	16	<20	89	613	19900	35
18-A	8400	3	15	<20	89	603	20000	36
18-B	9400	4	14	12	105	604	20400	35
19-A	7200	4	6	36	123	691	20000	31
19-B	7400	4	9	34	113	729	19700	31
20-A	5200	9	8	<20	113	581	20000	35
20-B	5600	9	8	<20	124	634	21300	38
21-A	5800	5	6	<20	123	547	18400	29
21-B	6000	5	5	<20	130	606	19500	33
22-A	5900	6	7	<20	151	564	18400	31
22-B	5400	6	5	<20	142	555	18600	31
23-A	11000	6	13	85	1162	685	67600	66
23-B	8300	6	9	54	560	595	39500	52
25-A	4200	5	7	22	84	588	13800	29
25-B	3800	5	6	26	80	579	13400	26
26-A	4200	3	6	28	120	458	14700	26
26-B	4600	3	6	42	120	462	13800	27
27-A	7200	3	8	34	454	624	30000	43
27-B	7500	4	6	32	460	612	34000	46

APPENDIX G-13-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
28-A	8000	4	8	26	617	609	33800	43
28-B	8200	4	6	36	740	672	39800	47
29-A	4800	4	5	20	217	496	16800	28
29-B	5400	5	6	22	262	523	17700	31
31-A	4200	4	5	26	133	504	12800	26
31-B	3800	4	5	36	96	585	11300	26
32-A	7800	4	7	22	504	577	28400	36
32-B	7000	4	7	22	355	550	25200	32
35-A	6100	4	4	28	399	589	24600	30
35-B	6500	4	4	24	432	593	26200	32

APPENDIX G-14-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX G-14-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1]
(Results are expressed in µg/g unless otherwise stated.)

	PARAMETER							
Station	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
1-A	9500	35	20	32	1340	986	76900	67
1-B	10100	33	23	35	1144	1059	78100	70
2-A	9600	16	15	34	915	960	56400	68
2-B	9700	20	17	35	709	957	48500	70
3-A	9500	8	15	<20	347	803	30700	49
3-B	9300	7	14	10	360	763	31800	42
4-A	9300	13	13	52	581	808	40100	44
4-B	9000	11	14	50	572	793	39900	40
5-A	8100	6	13	10	320	635	26900	65
5-B	8000	6	11	<20	289	489	27900	52
7-A	9400	14	12	<20	455	699	36000	44
7-B	9800	14	13	<20	473	724	37600	44
8-A	10000	8	12	<20	1245	829	63500	44
8-B	10300	9	12	<20	876	735	50800	43
9-A	10500	23	17	<20	519	781	36800	55
9-B	9900	21	20	<20	500	796	35700	55
13-A	8600	9	12	<20	509	716	33400	48
13-B	9000	10	11	<20	421	689	30500	38

[1]Stations 6, 10 - 12 and 15 - 18 were dry at the time of sampling.

APPENDIX G-14-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
14-A	11300	3	5	< 20	155	519	28300	31
14-B	12000	3	5	< 20	156	512	27300	33
19-A	7100	4	5	< 20	158	669	21100	28
19-B	7000	4	4	< 20	138	680	18600	29
20-A	4600	7	5	< 20	127	650	16800	28
20-B	4600	7	4	< 20	132	562	15900	25
21-A	12700	3	15	90	1962	873	93300	72
21-B	12600	4	14	140	2071	920	99400	72
22-A	4900	5	10	< 20	173	588	19600	24
22-B	4900	5	11	20	203	581	18500	26
23-A	6200	4	14	35	992	476	54200	46
23-B	6800	5	15	30	818	489	46200	48
24-A	6500	4	16	28	544	531	31000	44
24-B	5800	4	12	22	461	499	30200	35
25-A	5300	4	5	< 20	347	425	21400	36
25-B	4900	4	4	< 20	373	412	22600	38
26-A	9400	5	10	30	872	538	51000	46
26-B	9000	4	11	30	857	538	50400	50
27-A	7100	5	12	22	875	479	51400	43
27-B	8800	6	11	30	971	502	52900	45
28-A	9400	5	11	24	724	542	41000	51
28-B	10300	6	13	32	978	556	54900	51
29-A	10800	6	13	40	1214	551	66600	55
29-B	11900	6	15	37	1312	587	83600	59

APPENDIX G-14-1 (Continued)

Station	PARAMETER							
	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
30-A	8200	5	13	34	1216	647	64700	52
30-B	7400	4	11	32	952	480	50500	47
31-A	3800	5	6	30	168	587	14400	26
31-B	3800	5	5	20	215	596	13600	25
32-A	4500	4	8	24	366	388	21100	36
32-B	4800	4	7	22	366	427	19700	33
33-A	8800	5	13	30	1310	576	64700	44
33-B	8600	6	12	28	1165	561	59600	50
34-A	3900	4	7	<20	1040	391	17800	27
34-B	4200	5	8	<20	835	398	18700	28
35-A	7400	5	12	28	740	494	45600	44
35-B	7800	10	13	32	970	506	53100	47

APPENDIX G-15-1

RESULTS OF SEDIMENT PESTICIDE ANALYSIS
RBOSP AQUATIC BASELINE STUDIES
NOVEMBER - DECEMBER 1975

APPENDIX G-15-1

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES, NOVEMBER - DECEMBER 1975.[1]
(Data are expressed in mg/kg.)

Station	Parameter			
	Malathion	DDT	Lindane	Toxaphene
5-A	<0.1	<0.005	<0.001	<0.5
5-B	<0.1	<0.005	<0.001	<0.5
7-A	<0.1	<0.005	<0.001	<0.5
7-B	<0.1	<0.005	<0.001	<0.5
8-A	<0.1	<0.005	<0.001	<0.5
8-B	<0.1	<0.005	<0.001	<0.5
9-A	<0.1	<0.005	<0.001	<0.5
9-B	<0.1	<0.005	<0.001	<0.5
13-A	<0.1	<0.005	<0.001	<0.5
13-B	<0.1	<0.005	<0.001	<0.5
14-A	<0.1	<0.005	<0.001	<0.5
14-B	<0.1	<0.005	<0.001	<0.5
15-A	<0.1	<0.005	<0.001	<0.5
15-B	<0.1	<0.005	<0.001	<0.5
19-A	<0.1	<0.010	<0.004	<1.0
19-B	<0.1	<0.010	<0.002	<1.0
20-A	<0.1	<0.005	<0.001	<0.5
20-B	<0.1	<0.005	<0.001	<0.5
23-A	<0.1	<0.005	<0.001	<0.5
23-B	<0.1	<0.005	<0.001	<0.5
25-A	<0.1	<0.005	<0.001	<0.5
25-B	<0.1	<0.005	<0.001	<0.5
27-A	<0.1	<0.005	<0.001	<0.5
27-B	<0.1	<0.005	<0.001	<0.5
28-A	<0.1	<0.005	<0.001	<0.5
28-B	<0.1	<0.005	<0.001	<0.5
29-A	<0.1	<0.005	<0.001	<0.5
29-B	<0.1	<0.005	<0.001	<0.5
33-A	<0.1	<0.005	<0.001	<0.5
33-B	<0.1	<0.005	<0.001	<0.5
34-A	<0.1	<0.005	<0.001	<0.5
34-B	<0.1	<0.005	<0.001	<0.5

[1] Stations 1 - 4, 6, 10 - 12, 16 - 18, 21, 22, 24, 26, 30 - 32, and 35 were dry or inaccessible during sampling period.

APPENDIX G-15-1

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES, NOVEMBER - DECEMBER 1975.[1]
(Data are expressed in mg/kg.)

Station	Parameter			
	Malathion	DDT	Lindane	Toxaphene
5-A	<0.1	<0.005	<0.001	<0.5
5-B	<0.1	<0.005	<0.001	<0.5
7-A	<0.1	<0.005	<0.001	<0.5
7-B	<0.1	<0.005	<0.001	<0.5
8-A	<0.1	<0.005	<0.001	<0.5
8-B	<0.1	<0.005	<0.001	<0.5
9-A	<0.1	<0.005	<0.001	<0.5
9-B	<0.1	<0.005	<0.001	<0.5
13-A	<0.1	<0.005	<0.001	<0.5
13-B	<0.1	<0.005	<0.001	<0.5
14-A	<0.1	<0.005	<0.001	<0.5
14-B	<0.1	<0.005	<0.001	<0.5
15-A	<0.1	<0.005	<0.001	<0.5
15-B	<0.1	<0.005	<0.001	<0.5
19-A	<0.1	<0.010	<0.004	<1.0
19-B	<0.1	<0.010	<0.002	<1.0
20-A	<0.1	<0.005	<0.001	<0.5
20-B	<0.1	<0.005	<0.001	<0.5
23-A	<0.1	<0.005	<0.001	<0.5
23-B	<0.1	<0.005	<0.001	<0.5
25-A	<0.1	<0.005	<0.001	<0.5
25-B	<0.1	<0.005	<0.001	<0.5
27-A	<0.1	<0.005	<0.001	<0.5
27-B	<0.1	<0.005	<0.001	<0.5
28-A	<0.1	<0.005	<0.001	<0.5
28-B	<0.1	<0.005	<0.001	<0.5
29-A	<0.1	<0.005	<0.001	<0.5
29-B	<0.1	<0.005	<0.001	<0.5
33-A	<0.1	<0.005	<0.001	<0.5
33-B	<0.1	<0.005	<0.001	<0.5
34-A	<0.1	<0.005	<0.001	<0.5
34-B	<0.1	<0.005	<0.001	<0.5

[1] Stations 1 - 4, 6, 10 - 12, 16 - 18, 21, 22, 24, 26, 30 - 32, and 35 were dry or inaccessible during sampling period.

Technical Studies

APPENDIX G-16-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

Mental Studies

APPENDIX G-16-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

Common Name	Scientific Name	Number Captured
Flannelmouth sucker	Catostomus latipinnis	48
Bluehead sucker	Catostomus discobolus	9
Roundtail chub	Gila robusta	3
Speckled dace	Rhinichthys osculus	90
Fathead minnow	Pimephales promelas	1
Mottled sculpin	Cottus bairdi	20

OIC

2.3 Other Environmental Studies

APPENDIX G-16-2

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

mental Studies

APPENDIX G-16-2

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976

Station Replicate	Date	Species	Length (mm)	Weight (gm)
20-A	6-24-76	No Fish Captured		
20-B	6-24-76	No Fish Captured		
21-A	6-24-76	No Fish Captured		
21-B	6-24-76	Speckled dace	34	0.50
22-A	6-24-76	No Fish Captured		
22-B	6-23-76	Speckled dace	40	0.61
22-Qual	6-23-76	Bluehead sucker	46	0.88
		Speckled dace	48	1.00
		"	51	1.35
		"	47	1.03
		"	46	0.95
		"	45	0.86
		"	48	0.62
		"	46	1.02
		"	45	0.82
		"	43	0.94
		"	40	0.58
		"	42	0.74
		"	43	0.77
		"	37	0.63
		"	40	0.65
		"	52	1.27
		"	41	0.70
		"	44	0.75
		"	46	0.85
		"	39	0.62
		"	36	0.51
		"	43	0.89
		"	41	0.78
		"	42	0.73
		"	39	0.64
		"	43	0.86
		"	41	0.68
		"	36	0.52
		"	38	0.57
		"	37	0.51
		"	39	0.57
		"	36	0.49
		"	38	0.51

APPENDIX G-16-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
22-Qual (Continued)		Speckled dace	36	0.45
		"	37	0.51
		"	35	0.48
		"	37	0.50
		"	33	0.41
		"	32	0.40
		"	31	0.31
		"	24	0.15
		"	22	0.09
23-A	6-25-76	Bluehead sucker	255	140.00
		Flannelmouth sucker	265	170.00
		"	103	11.46
		Speckled dace	85	6.76
		"	74	3.87
		"	71	3.64
		Mottled sculpin	92	11.71
		"	88	10.61
		"	86	10.86
		"	70	5.73
23-B	6-25-76	Flannelmouth sucker	406	540.00
		Bluehead sucker	192	65.00
		Speckled dace	68	4.03
		"	73	3.93
25-A	6-21-76	Flannelmouth sucker	471	900.00
		"	401	525.00
25-B	6-21-76	Flannelmouth sucker	400	650.00
26-A	6-21-76	Flannelmouth sucker	247	135.00
		Mottled sculpin	75	6.37
		"	69	4.90
26-B	6-21-76	Mottled sculpin	91	10.74
		"	91	11.62
		"	74	6.56
		"	71	5.71
27-A	6-22-76	Flannelmouth sucker	434	710.00
		"	385	580.00
		"	344	360.00
		"	346	365.00
		"	311	330.00
		"	230	85.00

APPENDIX G-16-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-B	6-22-76	Flannelmouth sucker	280	205.00
		"	227	80.00
		Roundtail chub	230	80.00
		Speckled dace	70	3.95
		Mottled sculpin	84	9.05
28-A	6-22-76	Flannelmouth sucker	375	500.00
		"	330	285.00
		"	294	215.00
		"	261	175.00
		"	236	110.00
		"	188	45.00
		"	90	5.32
		Bluehead sucker	95	10.93
		Roundtail chub	268	140.00
28-B	6-22-76	Flannelmouth sucker	263	150.00
		"	193	45.00
		"	166	25.00
		"	142	31.75
		Bluehead sucker	327	300.00
		"	166	[illegible].33
		Speckled dace	53	1.51
		"	52	1.58
		Mottled sculpin	91	11.25
29-A	6-22-76	Flannelmouth sucker	400	490.00
		"	411	550.00
		"	415	635.00
		"	81	4.25
		Bluehead sucker	327	300.00
		Roundtail chub	284	190.00
		Speckled dace	88	6.84
		"	79	4.82
		"	81	5.37
		"	82	5.14
		"	86	6.03
		"	75	4.11
		"	70	3.60
		"	66	2.91
		"	56	1.53
		"	52	1.24

APPENDIX G-16-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
29-A (Continued)		Speckled dace	54	1.25
		"	48	0.94
		"	50	1.13
		"	45	0.85
		"	48	1.12
		"	46	0.93
		"	46	0.93
		"	44	0.74
		"	47	1.00
		"	46	0.93
		"	46	0.87
		"	42	0.71
		"	85	6.44
29-B	6-22-76	Mottled sculpin	43	0.78
		Flannelmouth sucker	90	12.44
		"	123	18.30
		Speckled dace	70	3.24
		"	98	11.72
		"	85	7.53
		"	71	4.15
		"	46	1.10
		"	44	0.82
		"	43	0.93
31-A	6-27-76	Flannelmouth sucker	44	0.84
		"	376	645.00
		"	191	67.56
		"	19	0.04
		"	20	0.05
		"	20	0.05
		"	21	0.06
		"	18	0.04
		"	17	0.05
		"	17	0.04
		"	16	0.05
		"	15	0.04
		"	15	0.04
		"	15	0.04
		"	16	0.04
		Bluehead sucker	14	0.03
			178	64.32

APPENDIX G-16-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
31-B	6-27-76	No Fish Captured		
32-A	6-27-76	Bluehead sucker	179	56.47
		Speckled dace	86	7.72
		"	76	4.53
		"	45	0.95
		"	46	0.98
		"	45	0.97
		"	43	0.81
		"	41	0.68
		Fathead minnow	52	1.48
		Mottled sculpin	76	7.13
		"	74	6.36
		"	70	5.51
32-B	6-27-76	Flannelmouth sucker	471	237.00
		Mottled sculpin	90	10.90
		"	76	7.05
		"	67	5.34
		"	65	4.02
35-A	6-23-76	Speckled dace	86	8.12
35-B	6-23-76	No Fish Captured		

APPENDIX G-16-3

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976.

Species	Length (mm)	Weight (gm)	Food Item #	
Station 23 Replicate A Date 6-25-76				
Flannelmouth sucker	265	170	--	Algae - filamentous
Flannelmouth sucker	172	55	--	Nothing noted
Station 23 Replicate B Date 6-25-76				
Flannelmouth sucker	406	540	1	Baetidae nymph
			--	Algae - filamentous
	192	65	141	Chironomidae larvae
			1	Chironomidae pupae
			1	Simuliidae larvae
			1	Baetidae nymph
Station 25 Replicate A Date 6-21-76				
Flannelmouth sucker	471	900	14	Chironomidae larvae
			7	Parasite
			--	Algae - filamentous
Flannelmouth sucker	401	525	16	Chironomidae larvae
			2	Simuliidae larvae
			4	Baetidae nymph
			5	Ephemerella nymph
				Algae - filamentous
Station 25 Replicate B Date 6-21-76				
Flannelmouth sucker	400	650	3	Chironomidae larve
			1	Baetidae nymph
			1	Parasite
				Algae - filamentous
Station 26 Replicate B Date 6-21-76				
Flannelmouth sucker	247	135	149	Chironomidae larvae
			1	Chironomidae pupae
			3	Baetidae nymph
			1	Ephemerella nymph
			1	Tricorythodes nymph
			2	Parasite
			--	Algae - filamentous

Station 27 Replicate A Date 6-21-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	434	710	33	Chironomidae larvae
			3	Chironomidae pupae
			6	Baetidae nymph
			2	Ephemerella nymph
			1	Parasite
Flannelmouth sucker	385	580	--	Nothing Noted
Flannelmouth sucker	344	360	--	Algae - filamentous
Flannelmouth sucker	311	330	2	Chironomidae larvae
			1	Parasite
Flannelmouth sucker	230	85	98	Chironomidae larvae
			7	Chironomidae pupae
			1	Ceratopogonidae larvae
			1	Ephemerella nymph

Station 27 Replicate B Date 6-22-76

Roundtal chub	230	80	1	Chironomidae adult
			1	Ant
			1	Baetidae nymph
			3	Hydropsyche larvae
			1	Isoperla nymph
Flannelmouth sucker	280	205	4	Parasite (segmented worm)
			32	Chironomidae larvea
			5	Chironomidae pupae
Flannelmouth sucker	227	80	2	Parasite
			36	Chironomidae larvae
			4	Chironomidae pupae
			1	Hydroptilidae larvae
			--	Algae - filamentous

Station 28 Replicate A Date 6-22-76

Roundtail chub	268	140	9	Parasite (segmented worm)
Flannelmouth sucker	375	500	4	Chironomidae larvae
				Algae - filamentous
Flannelmouth sucker	330	285	4	Chironomidae larvae
			--	Algae - filamentous
Flannelmouth sucker	294	215	8	Chironomidae larvae
			1	Chironomidae puape
			--	Algae - filamentous

Species	Length (mm)	Weight (gm)	Food Item #	
Station 28 Replicate A Date 6-22-76				
Flannelmouth sucker	261	175	42	Chironomidae larvae
			13	Chironomidae pupae
			1	Parasite (unknown)
			1	Acari
Flannelmouth sucker	236	110	16	Chironomidae larvae
			16	Chironomidae pupae
			1	Baetidae nymph
			1	Ephemerella nymph
			1	Hydroplilidae larvae
			--	Algae - filamentous
Flannelmouth sucker	188	45	3	Chironomidae larvae
			1	Chironomidae pupae
Station 28 Replicate B Date 6-22-76				
Bluehead sucker	327	300	24	Chironomidae larvae
			1	Baetidae nymph
Flannelmouth sucker	263	150	36	Chironomidae larvae
			5	Chironomidae pupae
			1	Baetidae nymph
			2	Ephemerella nymph
Flannelmouth sucker	192	45	56	Chironomidae larvae
			3	Chironomidae pupae
			3	Baetidae nymph
			2	Ephemerella nymph
Flannelmouth sucker	166	25	157	Chironomidae larvae
			8	Chironomidae pupae
			1	Baetidae
Station 29 Replicate A Date 6-22-76				
Roundtail chub	284	190	10	Parasite (segmented flatworm)
			1	Fish
Flannelmouth sucker	400	490	2	Chironomidae larvae
			1	Similiidae larvae
			3	Baetidae nymph

APPENDIX G-16-3 (Continued)

Station 29 Replicate A Date 6-22-76

Species	Length (mm)	Weight (gm)	Food Item #	Food Item
Flannelmouth sucker	411	550	29	Chironomidae larvae
			2	Chironomidae pupae
			5	Baetidae nymph
			1	Simuliidae larvae
			3	Parasite (unknown)
Flannelmouth sucker	415	635	11	Parasite (unknown)

APPENDIX G-17-1

STREAM VELOCITY
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

2.4.10.23

APPENDIX G-17-1

STREAM VELOCITY. RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1976. (Results are expressed in feet per second and, where appropriate, are given for bank side and point of maximum flow.)[1]

Station	Velocity (ft/sec)		
	s	m	s
1		2.1	
2		2.7	
3		0.3	
4		0.8	
5		0.5	
6		1.3	
7		1.1	
8		1.5	
9		0.8	
13		2.1	
14		1.1	
15		0.7	
17		0.8	
18		0.6	
19		1.8	
20		1.8	
21		0.7	
22		1.6	
23		5.8	
25	2.1;	3.0;	2.9
26	2.1;	2.1;	2.1
27	0.3;	1.4;	0.7
28	1.5;	1.6;	1.2
29	2.1;	3.1;	3.7
31		4.2	
32		2.6	
35		2.8	

[1] Stations 10 - 12, 16, 24, 30, 33 and 34 were dry or inaccessible at the time of sampling.

APPENDIX G-18-1

STREAM VELOCITY
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

2.4.10.25

APPENDIX G-18-1

STREAM VELOCITY, RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1] (Results are expressed in feet per second and, where appropriate, are given for bank side and point of maximum flow.)

Station	Velocity (ft/sec)		
	s	m	s
1		0.5	
2		1.1	
3		0.5	
4		0.4	
5		0.9	
7		0.3	
8		1.8	
9		0.3	
13		2.1	
14		1.5	
19		1.9	
20		1.1	
21		0.6	
22		1.0	
23	2.3;	2.7;	2.4
24	1.7;	1.0;	0.7
25	1.8;	2.0;	1.6
26	0.9;	1.6;	2.7
27	0.7;	0.8;	0.4
28	0.9;	1.0;	1.2
29	1.2;	3.2;	2.5
30	2.3;	2.1;	1.9
31	2.1;	2.3;	2.1
32	1.3;	1.1;	2.5
33	1.6;	1.9;	2.4
34	2.0;	4.2;	2.7
35	2.4;	4.0;	2.9

[1]Stations 6, 10 - 12, and 15 - 18 were dry at the time of sampling.

APPENDIX G-19-1

WATER QUALITY DATA. RADIOLOGICAL ANALYSES
RBOSP AQUATIC BASELINE STUDIES
FEBRUARY 1976

APPENDIX G-19-1

WATER QUALITY DATA. RADIOLOGICAL ANALYSES, RBOSP
AQUATIC BASELINE STUDIES, FEBRUARY 1976.
(Data are expressed in pCi/D.)

Gross Alpha (α)	<0.32	<0.34	<0.34	<0.30
Gross Beta (β)	5.4±1.0	6.0±1.0	5.3±0.9	5.1±0.9

2.4.7 Macrophytes

During the May - June 1976 sampling period, aquatic macrophytes were observed at Stations 2, 4, 5, 14, and 19. At Station 2, watercress, Rorippa nasturtium-aquaticum was observed in scattered abundance; at Stations 4 and 5, watercress was present in very low abundance whereas at Station 14, horned pondweed, Zannichellia palustris was present in scattered abundance. At Station 19, Chara kieneri was found in low abundance while Zannichellia palustris was present in rank abundance.

During the July 1976 sampling, aquatic macrophytes were observed at Stations 1, 2, 4, 5, 14, and 19. At Stations 1, 2, and 4, the abundance of watercress, Rorippa nasturtium-aquaticum was low. At Station 5, Ranunculus cymbolaria was observed in scattered abundance, along with scattered Chara kieneri, Zannichella palustris, and Typha sp. At Station 14, the abundance of Zannichellia palustris was rank, whereas at Station 19, Zannichellia palustris was present in scattered abundance and sedges were present in rank abundance.

2.4.7 - Macrophytes Data

2.4.8 Fish

Fish data from the June 1976 sampling are presented in Appendices G-16-1 through G-16-3. During the June 1976 sampling, a total of 171 fish representing six species was captured in Yellow Creek and the White River. The most abundant species was speckled dace, and no game fish species were observed. High water and turbidity in the White River reduced the efficiency of the fishing efforts and precluded sampling at Stations 24, 30, 33, and 34. This compares with June 1975 when 463 fish, representing seven species, were captured. The most abundant species at that time was also dace.

2.4.8 - Fish Data

2.4.9 Springs and Seepages

Approximate locations of springs and seepages on or near Tract C-a are shown on Figure 2.4-2. No additional springs or seepages have been observed since Progress Report 7.

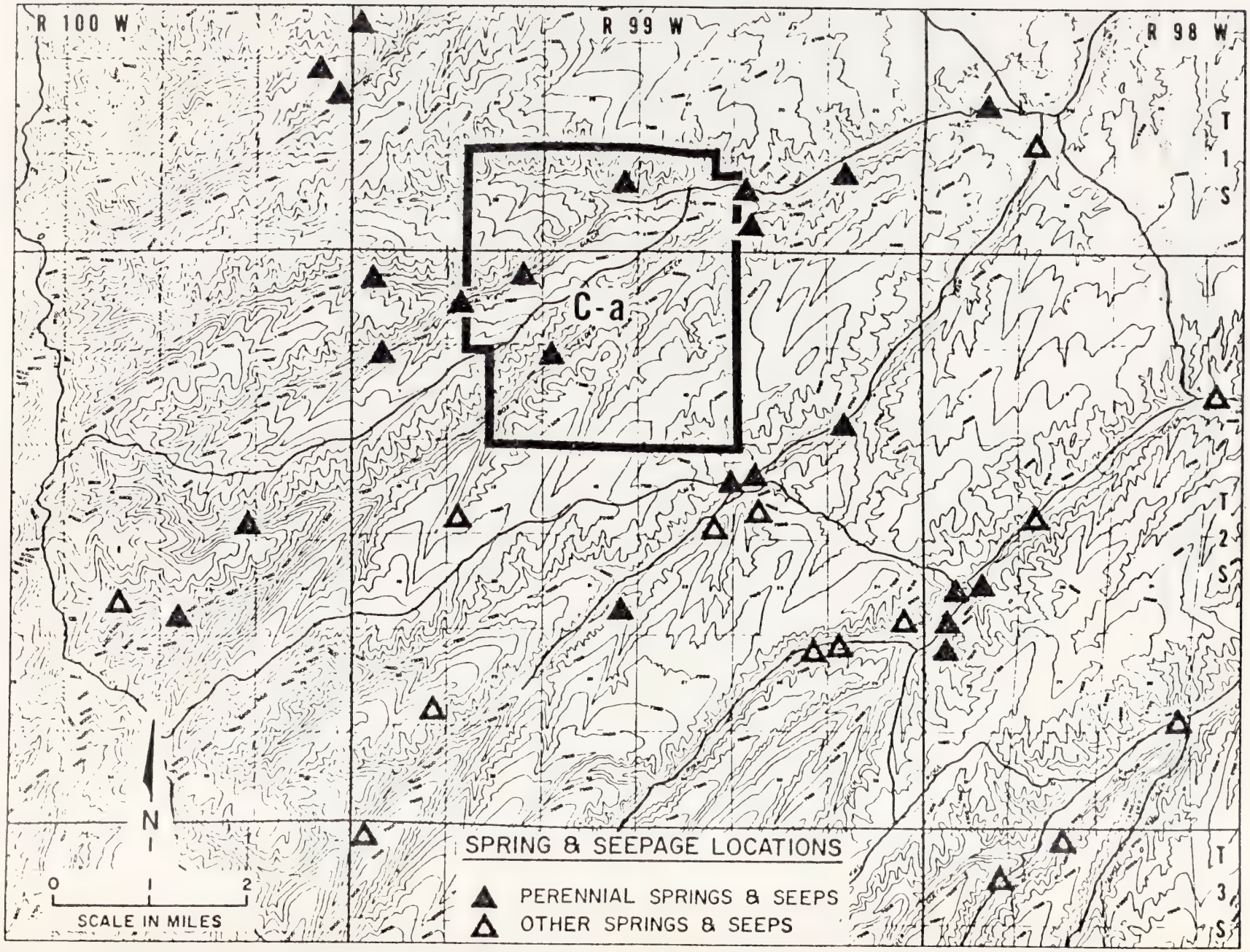


Figure 2.4-2. Spring and Seepage Locations

2.4.10 Hydrology

The approximate stream velocities observed during the May - June and July - August 1976 sampling periods are presented in Appendices G-17-1 and G-18-1 respectively.

2.4.10 - Hydrology Data

2.5 Other Environmental Programs

2.5.1 Soil Survey and Productivity Assessment Studies

2.5.1.1 Objectives (See Progress Report 7)

2.5.1.2 Methods (See Progress Report 7)

2.5.1.3 Results and Discussion

All field work for the soils program has been completed. Chemical and physical analyses, with the exception of ammonium analysis, has also been completed. The results of the analyses are currently being punched on computer cards in preparation for detailed statistical analyses. Current plans envision completion of this program by the end of the calendar year.

2.5.2 Archaeological Survey

The final report, which was released in May 1976, is still under review by state and federal agencies. Comments are being incorporated following a discussion with the reviewer. The cultural resource document includes archaeological, historical and paleontological sections.

2.5.3 Revegetation

2.5.3.1 1975 Revegetation Studies

Field studies estimating seedling emergence and survival on the 1975 revegetation plots have been completed. Data from these studies are being analyzed and the results will be reported by the end of the current year.

2.5.3.2 1976 Revegetation Studies

2.5.3.2.1 Objectives

The objectives of the 1976 RBOSP revegetation experimental program are:

1. To determine if the simulated artificial soil profile can inhibit upward capillary migration of salts from Tosco II processed shale.
2. To determine which plant species (when sown in a composite mixture on the simulated artificial soil profile) are best adapted to the environmental conditions existing on a south exposure on Tract C-a.
3. To determine if several mulches applied to the simulated artificial soil profile are effective in aiding establishment and survival of plant species and in reducing erosion.
4. To compare growth and survival of native shrubs that are sown directly or planted as tubelings on the simulated artificial soil profile.

2.5.3.2.2 Methods

The 1976 revegetation experiments will simulate the artificial soil profile described in the RBOSP Detailed Development Plan (1976) utilizing Tosco II processed shale. Seedbed preparation for the 1976 revegetation plot was initiated on 29 September. Surface soil, subsurface soil and fractured rock material were removed and stockpiled. The processed shale layer and crushed rock layer will be placed in the plot in October and the surface and subsurface soils replaced. Seedbed preparation will continue throughout October and early November; completion is expected by mid-November.

2.5.5 Trace Metals

Trace metals analysis is included in the soil survey and productivity program. Following conclusion of that program, the data will be analyzed in light of trace metal cycling in the system.